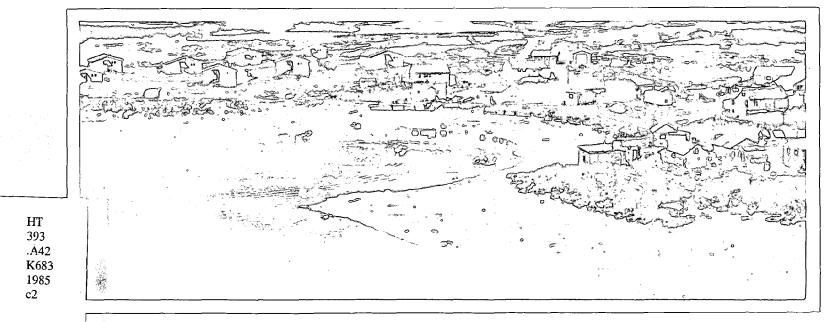
KODIAK ISLAND BOROUGH COASTAL SENSITIVITY STUDY

Citizens Manual



ODIAK ISLAND BOROUGH COMMUNITY DEVELOPMENT DEPARTMENT
February 1985

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KODIAK ISLAND BOROUGH - COASTAL SENSITIVITY TO OIL SPILLS A CITIZEN'S MANUAL

INTRODUCTION

As part of its coastal management program, the Kodiak Island Borough studied the sensitivity of its coastal areas to pollution from oil and other petroleum products. The study included a technical report on the physical, biological, and human resources of the Borough, and a series of maps showing the sensitivity of these resources to oil pollution in coastal and nearshore areas. This Citizen's Manual is a summary of the technical report.

The Manual provides information about the oil spill sensitivity of Kodiak's resources. It can be used to make decisions in the event of a spill. It is not a specific response plan or a contingency plan. However, it does show where sensitive resources are located within the nearshore zone and when they are sensitive.

THE KODIAK ISLAND BOROUGH

The Kodiak Island group lies in the western portion of the Gulf of Alaska, separated from the Alaska Peninsula by the Shelikof Strait. Approximately 200 miles long and 100 miles wide, the island includes five major island groups: the Barren Islands, Shuyak Island, Afognak-Marmot-Raspberry Islands, Kodiak Island, and the Trinity Islands. The entire archipelago has an area of 5,000 square miles and lies within the boundaries of the Kodiak Island Borough.

There are seven communities within the Kodiak Island Borough: Akhiok, Karluk, Larsen Bay, Old Harbor, Ouzinkie, Port Lions, and the City of Kodiak. Most of these communities are heavily dependent upon commercial fishing for their livelihoods. In addition, subsistence plays a large role in the economies of most Kodiak communities. Kodiak is a favorite recreation area for persons living in other parts of the state as well as residents of the Borough. Kodiak's hunting and fishing attracts sportsmen from all over the world.

SHORELINE

The rugged coastline has many deep, narrow fjords, bays and scattered islets. Much of the shoreline is rocky and steep cliffs are common; however, there are also a number of estuaries, wetlands and lagoons, particularly at the heads of bays. Seven major coastal types are found in the Borough: 1) rocky headlands, 2) wave-cut platforms, 3) sand beaches/exposed tidal flats, 4) mixed sand and gravel beaches, 5) gravel beaches, 6) sheltered rocky and gravel shores, and 7) protected estuarine tidal flats and marshes. Of these, sheltered rocky and gravel shores are the most common, making up more than a third of the coastline. Mixed sand and gravel beaches are the next most common, followed by wave-cut platforms.

Each of these coastline types has a different sensitivity to oil pollution. The shoreline types are shown on the oil retention maps in the back of the manual. Sensitivity to oil pollution depends on how long the oil stays in or on the shoreline. This, in turn, depends on the shoreline type and wave energy. Generally, rocky shorelines and fine sediments (mud and fine sand) prevent penetration of oil. Coarse sediments, particularly pebble, cobble, and boulder-sized gravel, allow considerable oil penetration. Oil in areas of high wave energy exposure can quickly wash away, and oil would not penetrate as deeply into the

1

shoreline in those areas as it would in places where wave energy is low. High wave energy areas are found on outer coasts which are exposed to ocean waves. Inner bays are usually areas of low wave energy.

The longer oil is present in or on the shoreline, the greater the potential for harming plants and animals. This is important in Kodiak, which is rich in fish and wildlife that contribute to the local economy. The many fjords and bays of the Kodiak Archipelago provide sheltered habitats for birds, fish and marine mammals. Shoreline areas are used by various terrestrial mammals and birds. Oil spilled in these areas could be harmful to fish and wildlife.

FISH AND WILDLIFE

Birds

Kodiak Island has many seabird colonies which host thousands of birds, particularly during the summer months. Some common seabirds found in the area are glaucous-winged gulls, murres, black-legged kittiwakes, cormorants, and puffins. These birds feed in nearshore waters and would be very susceptible to oil spills. If oil coats the birds' feathers, the birds are no longer protected from the cold and may die of exposure. Oiled birds also may sink and drown or may swallow large quantities of oil in trying to clean their feathers.

There are many other species of birds found in Kodiak waters. Kodiak is an important overwintering area for some species of waterfowl. Like seabirds, ducks and geese may be affected by oil. Other birds that live in the area include shorebirds, eagles, ravens, peregrine falcons and other raptors, and songbirds. All of these birds may be affected

to some extent by an oil spill in the coastal areas. The biological maps in this manual show seabird colony locations and areas used by waterfowl during winter and summer.

Fish

Marine fish that are found in Kodiak nearshore waters include herring, capelin and various groundfish such as yellowfin sole, rock sole, halibut, pollock and cod. Most of these species spend the majority of their lives in offshore waters and are found in the nearshore zone only as juveniles or during spawning. For example, herring move into rocky coastal areas in the spring to lay their eggs on seaweed-covered rocks and boulders. The eggs and newly-hatched fish remain in the nearshore areas for several months before moving into deeper offshore areas. Capelin have a similar life cycle. Juvenile groundfish are also found in nearshore areas. Since juvenile fish are usually more sensitive to oil pollution than are adults, they are very vulnerable to oil spills in nearshore waters.

Anadromous fish are an important resource in the Kodiak area. Kodiak streams contain sockeye (red) salmon, coho (silver) salmon, pink salmon, chum salmon, chinook (king) salmon, steelhead, and Dolly Varden. These fish generally spend their adult lives in saltwater, returning to Kodiak rivers and streams to spawn. Newly-hatched fish spend varying amounts of time in the rivers before moving to nearshore waters to feed and rear. As they mature, they move into deeper oceanic waters. The nearshore zone is a critical area for anadromous fish. An oil spill here could harm juvenile salmon as well as adults returning to the

Invertebrates

The marine nearshore waters are also home to many invertebrate animals, including mussels, barnacles, clams, shrimp and crabs. King and Dungeness crabs gather in shallow waters during certain times in their lives. During daylight hours, shrimp are usually buried in the muds on the sea floor, but at night they move up to the sea surface to feed. Juveniles often stay in the shallower portions of the habitat and migrate into deeper waters as they grow older. Many of the marine invertebrates are sensitive to oil pollution: clams, barnacles and urchins have experienced massive die-offs in actual spills. However, these animals are able to move quickly back into affected areas, and are not considered to be particularly sensitive, compared to species that do not move back into oiled habitats. Oil appears to be toxic to young of king and Dungeness crabs as well as to shrimp. The young of these species are more likely to be found in Kodiak nearshore waters than would adults.

Marine Mammals

Marine mammals are common in the Kodiak environment. Sea lions, harbor seals, and sea otters are found in most areas of the coastline. Of these, sea otters are probably the most vulnerable to the effects of oil. Otters depend upon their fur for insulation and buoyancy. When their coats become covered with oil, the insulative properties are lost and the otters either die of exposure or sink and drown. Seals and sea lions have a thick layer of blubber under their skin which keeps them warm and helps them float. While they may experience discomfort and may swallow oil trying to clean themselves, seals and sea lions are not as likely to drown or die of exposure as a result of being

oiled. Other marine mammals found in Kodiak waters include humpback whales, gray whales, killer whales, and porpoises. The humpback and gray whales pass through the Kodiak area during migrations to and from the Bering Sea. The other species may be found throughout the year but are not considered to be particularly vulnerable to oil pollution because of their mobility, how they feed and their reliance upon fat layers for insulation.

Terrestrial Mammals

Terrestrial mammals use the intertidal zones of Kodiak Island throughout the year and may come into contact with oil. River otters feed in nearshore marine waters and red foxes feed in the intertidal zone throughout the year. Brown bears move into the intertidal zone in the spring to feed after emerging from dens. Deer and elk move out of the higher elevations in the late fall and winter by snow and during these months often move into intertidal areas to feed on grasses and seaweeds. Some deer populations are found in intertidal areas throughout the year. Oil in beach areas could be harmful to these animals by contaminating food sources.

HUMAN RESOURCES

Major concerns during an oil spill are harmful effects to resources used by Borough residents. Commercial fishing, subsistence harvests, recreation activities, and boat and harbor facilities are all sensitive to oil spill damage. These activities and resources are very important to the livelihood of Borough residents and strongly influence actions that should be taken if an oil spill occurs.

Commercial Fishing

Commercial fishing is the most important contributor to the Kodiak economy and takes place in nearly every season of the year. Salmon are fished from the shore at set net sites and in nearshore waters using gill nets and purse seines. Dungeness, king, and tanner crab and shrimp are harvested by pot in the region. Other important resources include herring, halibut and other groundfish, clams and scallops. Fish are processed at shore-based sites and on floating processors.

Oil pollution can harm commercial fisheries in several ways. The fish can be injured or killed by oil, or may avoid an oiled area, both of which could result in fewer fish to harvest. Fish that are harvested could be tainted (or thought to be tainted by buyers), resulting in loss of sales. Oil in the water can foul gear (such as nets and pots) and boats, requiring expensive cleanup or replacement. Finally, fishing areas could be closed to fishing due to potential harm to the resource, potential tainting, or interference with spill cleanup activities.

Subsistence Harvest

All Borough residents rely on subsistence resources to some degree. Subsistence is particularly important in rural areas, where there are fewer opportunities for cash income. In addition to its economic value, subsistence plays an important role in village cultural traditions. Subsistence resources are harvested year-round, using a variety of methods. There are seven categories of resources used in coastal areas: fish (salmon, halibut, and trout), deer and reindeer, marine mammals, birds (waterfowl, bird eggs), rabbit, clams and crabs. While the reliance on specific

resources differs among communities, salmon and deer are heavily used by all.

Subsistence resources are sensitive to oil spills in several ways. The fish and wildlife harvested can be injured, killed or scared away by oil pollution. Access to hunting and fishing areas could be prevented. Fish and wildlife oiled or thought to be oiled are less desirable for harvest. Finally, gear and equipment used for harvesting can be fouled by oil pollution, requiring cleaning or replacement.

Recreation

Recreation activities are important to both Borough residents and outside visitors. Recreation contributes to the local economy, benefitting merchants, lodge owners, guides, and air taxi operators. The majority of activity occurs during sport hunting and fishing seasons (May – December), although local use of recreation facilities occurs year-round. Important species include fish (salmon, trout, steelhead, and halibut), brown bear, elk, deer, and waterfowl. Boating, picnics, hiking, camping, and sight-seeing are also important recreation activities. Recreation areas and facilities include state and local parks, and the Kodiak National Wildlife Refuge.

Recreation resources, activities, and facilities can be sensitive to oil pollution. The fish and wildlife important to hunting, fishing, and sightseeing can be injured or killed by oil. Oil contamination or cleanup activities can prevent access to or use of recreation areas. Even if use is not prevented, the presence of oil or cleanup equipment can lessen the quality of a recreational activity.

Infrastructure

Kodiak Island communities depend on the coastline. Homes, commercial facilities, boat harbors, docks, and other important facilities are located on the shoreline and can be exposed to, or be a source of, oil spills. Boat harbors support the commercial fishing industry, and unrestricted access is very important during fishing openings. Docks are used to load and unload supplies, fish, fuel, water, and passengers. In rural communities, the shoreline itself is an important transportation route.

Property damage, interference with access, and potential safety hazards are the main reasons that infrastructure is sensitive to oil spills. Oil contamination can cause damage to homes, boats, and harbor and dock facilities. It also presents a fire hazard in enclosed areas like boat harbors. Fouling of boat and gear during fishing periods can mean lost fishing time and lost dollars. The closing of a boat harbor or dock may have the same effect during fishing periods or scheduled cargo delivery. Effects of oil spills on residential and commercial property can range from creation of a nuisance to loss of property value.

Archaeological and Historical Resources

The Kodiak Island Borough is rich in archaeological and historic resources. Most of the archaeological sites are located on the coastline, concentrated along major bays and fish streams. Historic sites are associated with the island's Russian history, early days under American rule, and World War II defense facilities. Archaeological and historic sites are protected under state and federal law.

Oil spills can harm these sites in two ways: oil damage to the site or artifacts and damage from cleanup activities. Oil contamination can lessen the real and historic value of the site and artifacts. This could hurt future studies of the site. Cleanup activities can cause damage from the removal of oiled soil, use of heavy equipment, and vandalism. Oil spill cleanup activities at archaeological and historic sites must be coordinated with the State Historic Preservation Office and the Kodiak Island Borough.

OIL SPILLS

Sources of Oil Spills

There is a variety of potential petroleum product spill sources in the Kodiak Island Borough. Among these are onshore fuel storage tanks and refueling and maintenance of vessels. Leaky fittings can cause chronic oil pollution. Earthquakes, poor maintenance or human error can cause storage tank ruptures resulting in large, single-ocurrence spills which may reach coastal waters. Refueling and mantenance of vessels can also cause oil spills if waste oil is not properly disposed of or if careless techniques are used when filling vessels at the gas dock. Oil spills from vessel accidents are always a possibility.

If lease sales in the Kodiak area result in oil exploration and production, the Kodiak coastline is vulnerable to oil spills which may come from offshore drill rigs (although the probability is very low). Oil development would increase tanker and ship traffic, resulting in greater chances for accidents to occur during bad weather. Oil tanker accidents have occurred in various parts of the world and have oiled miles of coastline and large numbers of birds and

marine mammals. In addition to their cargo, ships carry thousands of gallons of fuel, which, if involved in an accident, could cause large oil spills. Other sources of spills include oily bilge from empty tankers on their way to tanker terminals and from crude oil storage tanks onshore.

Behavior of Oil and Oil Spills

Crude and refined oils can be divided into three groups: light distillates, heavy distillates and crude oils. The first group includes gasoline, kerosene and jet fuel. These products evaporate quickly and catch on fire easily. They can penetrate rapidly into muds, sands and gravel and are generally the most poisonous to plants and animals.

Heavy distillates include diesel oils and bunker fuel oils. These do not evaporate as rapidly as do light distillates and they tend to become very thick when they get cold. These oils, although somewhat less toxic than light fuels, are still poisonous to plants and animals.

Crude oil is raw, unprocessed oil which has been changed very little (if at all) since taking it from the well. The lighter portions of the oils evaporate very quickly leaving a heavy oil which may sink in water. Oil is "weathered" when the lighter portions evaporate, leaving a tar-like mass which may last for months. The most poisonous parts of any oils are the volatile fractions, i.e. those parts which evaporate quickly. Weathered oil which has lost those fractions is not as poisonous as freshly spilled oil.

Oil spilled into the ocean will usually form large slicks whose movements are affected by wind, waves and currents. Wind is the most important factor since it also influences the direction and the height of waves. Currents also help determine the direction of an oil spill. Tides can cause oil to be carried away from shorelines on ebbing tides and re-oiling them on rising tides. In the event of an oil spill, it is very important to track the spill from the air in order to predict where it is going so that sensitive coastlines can be protected.

Response Actions

Response to an individual oil spill will differ depending on its unique circumstances. Response actions can, however, be generally outlined:

- ALERT Appropriate government agencies are notified of the spill, including location and what type of oil has been spilled.
- CONTROL AND CONTAINMENT Efforts are made to stop the spill and contain the oil.
- PROTECTION Sensitive areas are protected if it appears that oil will reach them.
- CLEANUP AND OIL RECOVERY Oil is removed from the water and shoreline.
- DISPOSAL Oil and oiled vegetation, soil, etc. is disposed of in an acceptable manner.
- Oil can be controlled and contained by using booms, berms, and/or chemicals. Booms are floating barriers which

can be used to protect areas from oil or herd oil to a place where it can be picked up. Berms are constructed of earth; usually a trench is dug parallel to the berm to intercept oil. Chemicals are sometimes used to herd oil or to combine with oil to make cleanup easier.

After oil has been contained, it must be removed from the water or the shoreline. This can be done with equipment, by hand or with chemicals. Skimmers are a common piece of cleanup equipment. They are used to suck the oil off the surface of water. There are many different kinds of skimmers which are used in different circumstances. Dispersants are chemicals which break up oil slicks into fine droplets on the water surface and in the water column. The drops are prevented from re-joining after they are dispersed. There are advantages and disadvantages to using dispersants and their use is government regulated.

Sorbents are materials used to absorb oil floating on water. They can continue to float after absorbing the oil and can then be picked up mechanically. Sorbents can be natural substances like straw or sawdust or they can be manufactured items like polypropylene or polyurethane foam. The foams have more capacity to absorb oil than do straw or sawdust.

In some cases, the best way to get rid of the oil is by burning it. This decision must be made after the effects on public safety, air pollution, and fish and wildlife habitat have been considered.

Heavy equipment is often used to pick up oiled sand and gravel on beaches and in other areas. The sensitivity of the area must be considered before deciding to use front-end loaders or scrapers. In some sensitive areas, the best

cleaning method may be by hand. Rocks and other objects can be carefully cleaned without causing too much damage to plants and animals. Structures and some beach areas may be flooded with water to wash oil into areas where it can be picked up. Ships and docks may be steamcleaned.

Animal cleaning is a difficult operation and must be done by experts. Oiled birds and animals are under stress and if not treated properly, will die from the stress as readily as they would from the oil itself. Usually, it is better to try to keep the oil from reaching animal habitats than to try to clean oiled animals. In some cases, no action may be the best course. The decision to do nothing must be reached in consultation with the agencies overseeing the spill.

After oil has been cleaned up, it must be disposed of in an approved manner. This can be done by burning it in incinerators or by burying in specially prepared landfills. Another method is recycling. Oil can be picked up by vacuum trucks and transported to sites where it can be separated from any water it may have picked up and prepared for reuse. Recycling should always be the first choice over burning or burial.

HOW TO USE THE SENSITIVITY MAPS

Kodiak is an area rich in resources and important to the State of Alaska. Its coastal areas are sensitive; an oil spill into nearshore waters could have serious consequences for the fish, wildlife and human resources of the area. The maps which follow this section show the sensitive coastal zones and the seasons in which they are sensitive. V

The coastal areas of Kodiak has been divided into 49 sections. For each of these sections, there are three maps and a table. The maps represent: 1) oil retention index, 2) human use index, and 3) biological index. Three levels of sensitivity are shown on each map: high, moderate and low. These levels of sensitivity do not reflect the value of the coastline in any way, but show the relative sensitivity of the coastal areas to oil pollution.

Shorelines

The Oil Retention maps show the areas which have the highest likelihood of retaining oil, based on shoreline type and wave energy. Areas of high sensitivity will have oil present for more than one year, and include protected inlets, estuaries, lagoons, tidal flats and marshes. In moderately sensitive areas, oil may be present for weeks to months; they include sand-gravel beaches with moderate wave exposure. Oil will be present from a few days or weeks in areas of low sensitivity. This category includes rocky headlands, wave cut platforms and rocky beaches.

Biological Resources

The Biological maps show the sensitivity of the coastal areas various fish and wildlife species. Areas of high sensitivity include the following:

- 1. seabird colonies
- waterfowl high intensity use areas for nesting, staging, and wintering
- 3. sea lion haulouts and rookeries
- 4. sea otter high intensity use areas
- 5. black-tailed deer high intensity winter use areas
- 6. elk high intensity winter use areas

- brown bear spring and fall high intensity use areas
- B. razor clam beds
- 9. mouths of anadromous fish streams
- 10. herring spawning areas

Other types of areas may be as sensitive, but the lack of available information does not allow them to be mapped. Areas of moderate biological sensitivity have been identified as the following:

- 1. sea otter moderate use areas
- 2. general winter and summer use areas for waterfowl
- 3. general wintering areas for elk
- 4. general wintering areas for black-tailed deer
- 5. areas near the mouths of anadromous fish streams

Areas of low biological sensitivity include any parts of the coastline which do not fall in the high or moderate categories. Since this classification may reflect only the current state of resource knowledge and not the actual use or importance of the habitat, it is important that the sensitivity maps be reviewed and updated often.

<u>Human Resources</u>

The sensitivity of a particular human resource, facility, or activity to an oil spill depends on a number of factors:

- 1. level of economic or social importance
- 2. relative abundance and distribution
- 3. frequency of use
- 4. seasonal availability
- 5. available alternatives
- 6. regulatory status

Commercial Fisheries: The determination of sensitive commercial fishing areas reflects those fisheries at greatest risk to an oil spill: shrimp, herring and salmon. These fisheries all take place in shallow nearshore waters. Salmon fishery sensitivity was mapped using recent Alaska Department of Fish and Game catch statistics. High sensitivity areas produced more than 100,000 salmon per year, moderate areas produced between 10,000 and 100,000 and low sensitivity areas produced less than 10,000 fish. Herring fishery areas were considered highly sensitive if they produced more than 20 tons of roe per year and moderately sensitive if they produced less than 20 tons. In recent years, shrimp fishing has been allowed only in one bay, Alitak, and this area received a high sensitivity rating for that reason.

<u>Subsistence</u>: Subsistence sensitivities were determined as follows:

- o Salmon harvest areas were generally given a high sensitivity rating because villages heavily rely on that resource, its availability is seasonally limited, and harvest activities are subject to gear fouling or exclusion from a spill area.
- Depending upon location, waterfowl are moderately to highly sensitive due to limited seasonal availability, and reliance upon shoreline habitats.
- o Some resources, such as deer, marine mammals and shellfish were considered to be more sensitive closer to communities where they are more intensely harvested. While this is somewhat subjective, having to go further to harvest resources requires more time and fuel.

o Resources available in inland areas are considered to be sensitive only when concentrated in shoreline areas (such as deer).

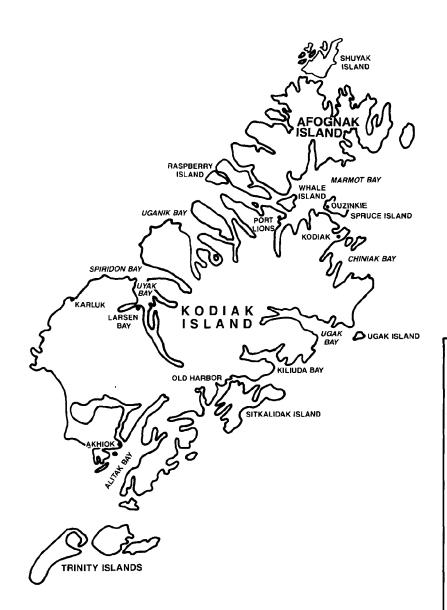
Recreation: Sensitivity of recreational facilities and activities in Kodiak changes with the time of year and proximity to populations and access. Seasonal importance is usually tied to availability of fish and/or game; summer and fall experience a greater level of recreation than winter or spring. Other factors include type of use or activity, level of activity, economic contribution, and management or regulatory status. Areas of high sensitivity include state parks (Ft. Abercrombie, Buskin River, Pasagshak Bay, Shuyak Island), sport fishing areas (marine and intertidal), commercial lodges (Seal Bay, Port Lions, Karluk Lagoon), waterfowl hunting areas, and popular picnic and outing areas. Areas of moderate sensitivity include coastal deer hunting areas, boating areas, and remote areas with moderate documented seasonal use. Remote areas with occasional documented use (usually seasonal) are considered to have a low sensitvity.

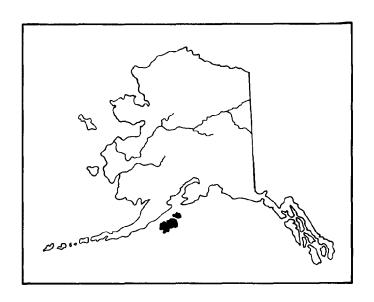
Infrastructure: In general, community infrastructure and commercial and residential property are highly sensitive to petroleum spills. This is due to the potential for property damage and the high cost of cleanup or reimbursement. Sensitivity to a petroleum spill reflects economic value and importance, availability of alternative facilities and level of use. Areas of high sensitivity include: boat harbors, docks and boat launching facilities, residential property, commercial property, and shoreline boat and gear storage areas. Shoreline transportation routes (three-wheelers and other all-terrain vehicles) are moderately sensitive.

Archaeological and Historic Resources: The sensitivity of historical and archaeological resources is generally high due to the potential for damage from oiling and cleanup activities. Areas with a high density of sites are considered to be more sensitive than single sites. These areas do not appear on the map, in order to protect their specific location. Further information can be obtained from the State Historic Preservation Office or the Kodiak Island Borough.

MAPS

All of the areas discussed above are shown on the following maps. Each set of maps has a table showing the seasons in which the resources are sensitive. In the event of an oil spill, these maps and tables can be used to identify the areas where the majority of preventative or cleanup effort may be concentrated, or the areas that should be concentrated on first. They also will help the response team to determine what types of cleanup or prevention measures might be needed due to the types of resources present. This manual is not an oil spill contingency plan; it is, however, an aid to those who are planning for oil spill contingencies or who are responding to an oil spill. REMEMBER: All oil spill response activities must be coordinated with the appropriate local, state and federal government agencies.





MAP INDEX AND SYMBOLS

	11		SHADED BLOCK SHOWS MAP NUMBER; ADJACENT MAP
17	18	19	NUMBERS ARE PROVIDED FOR REFERENCE
25	26	27	

SPILL SENSITIVITY

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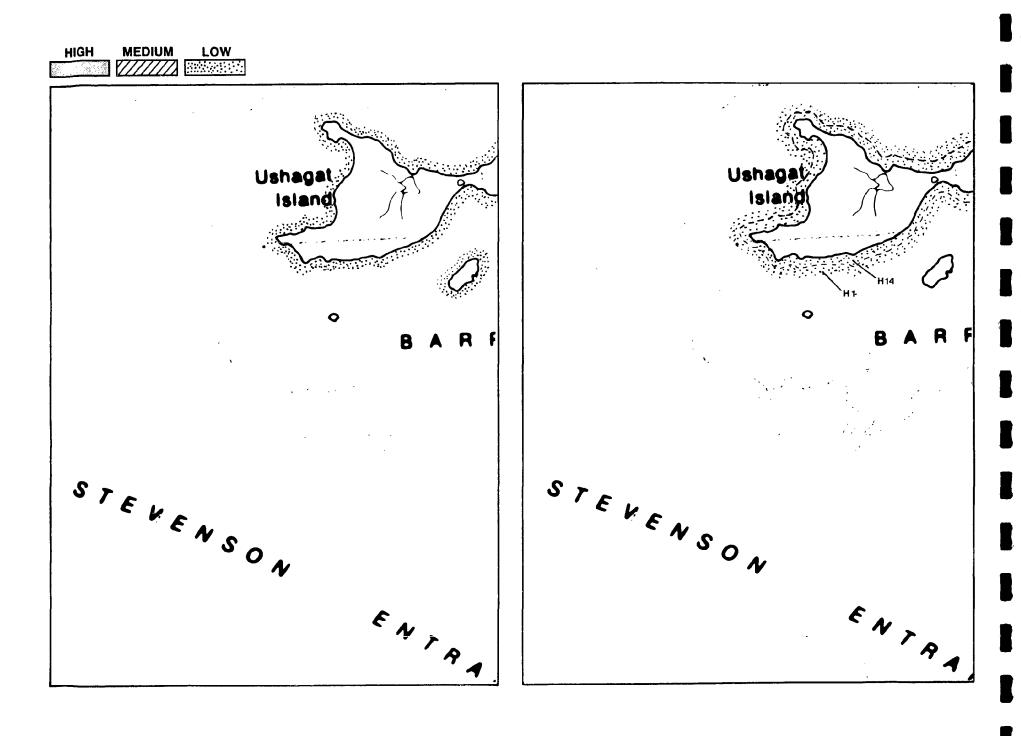
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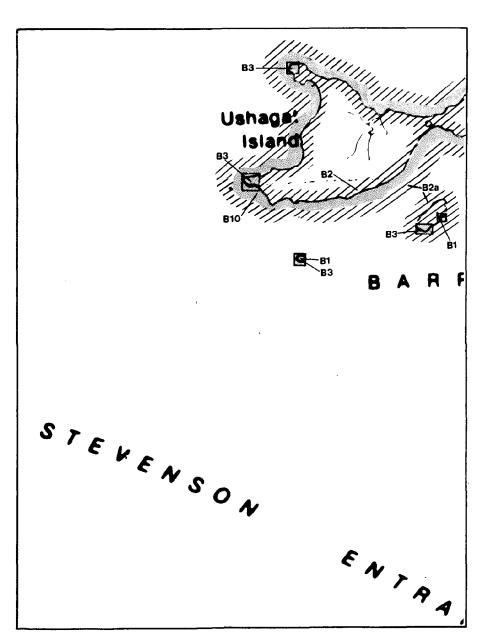
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Set-H1 Salmon Set Net Sites

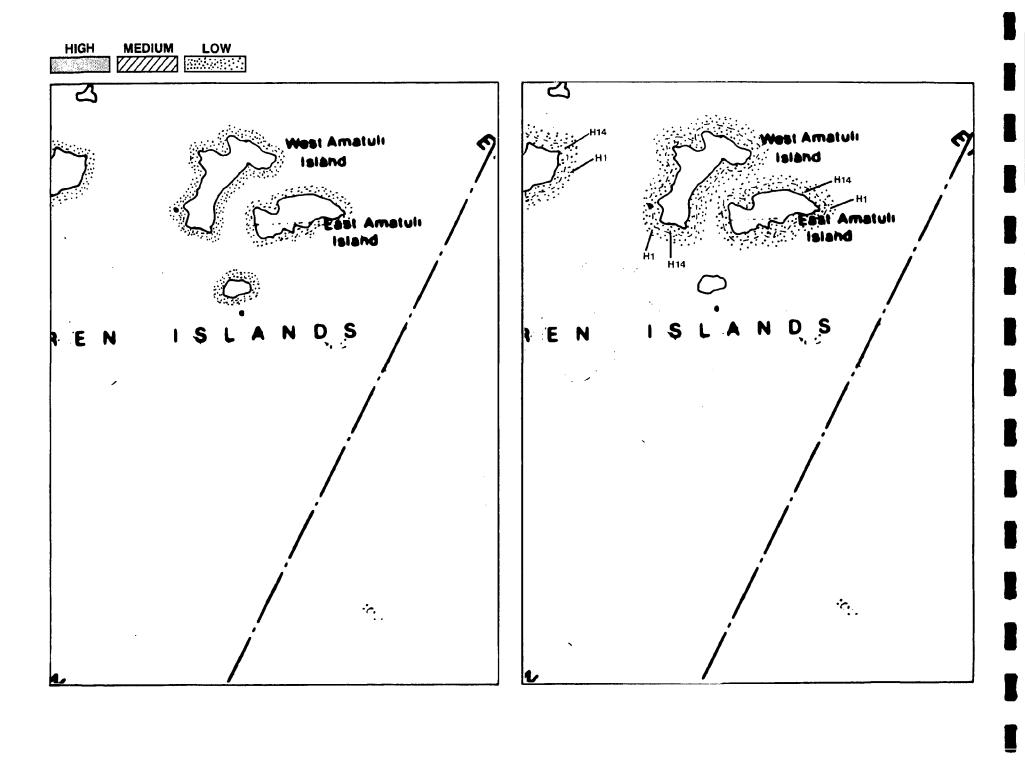
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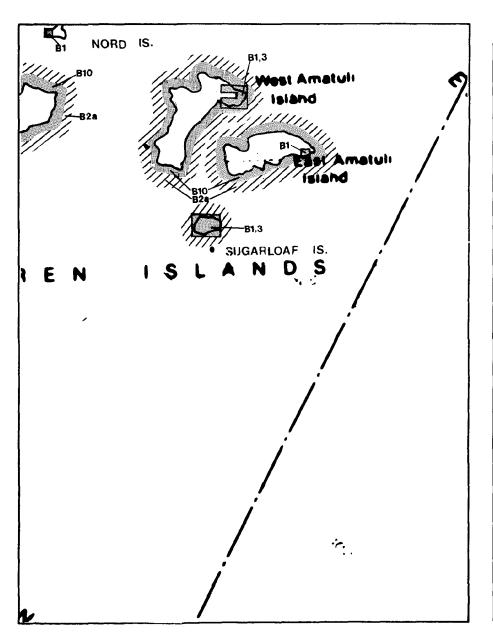
- 1. Coastal sensitivity rating only applies to oil spills and does not reflect resource value or sensitivity to other disturbance.
- 2. Seasonal sensitivity is similar to H-1 sensitivity seasonal table.





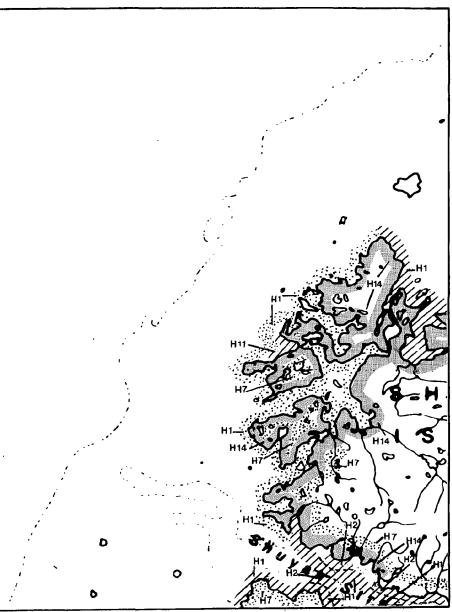
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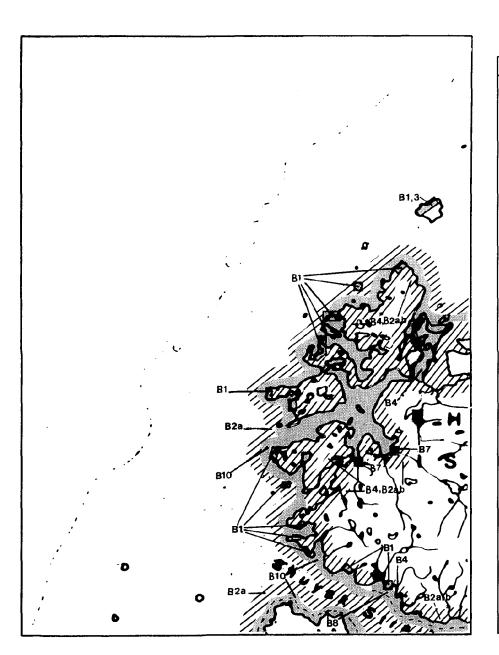




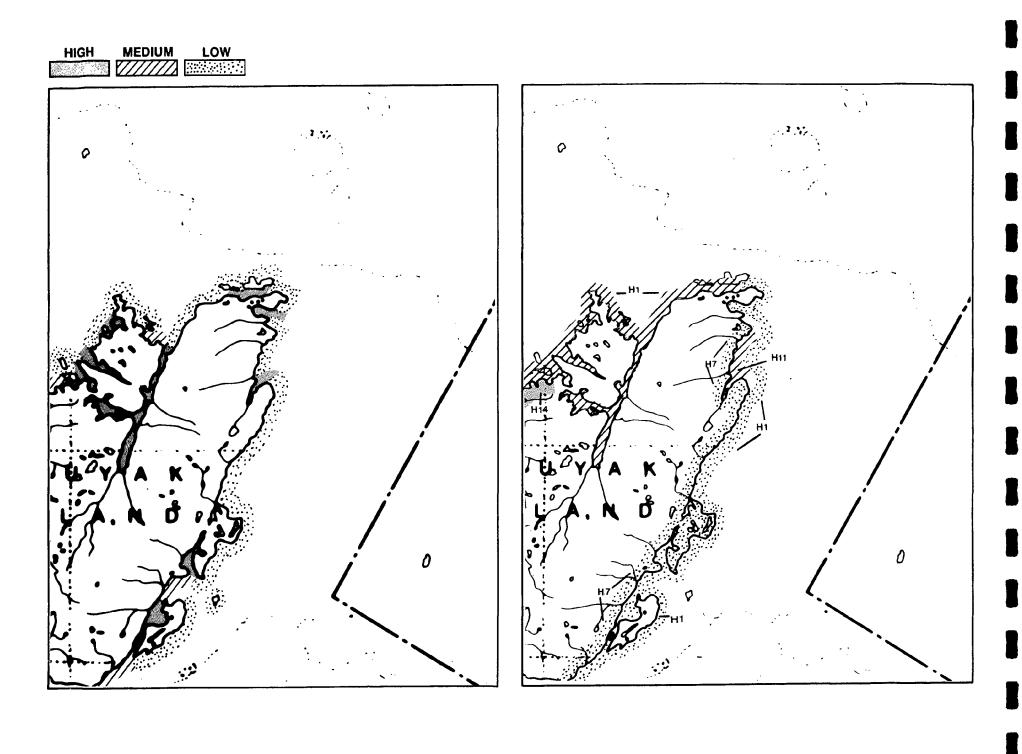
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H-11 Clams	١.]		
H-12 Halibut/Marine Fish	(
H-13 Salmon Recreation				
H-14 Recreation Use Area				
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H-18 Concentration of Commercial & Residential	ļ .	ļ I		ŀ
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B-2b Waterfowl (summer use)	li	1		
B-3 Sea Lion Haul-out	Н	-	_	_
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B-9 Razor Clam Beach]		1
B-10 Sea Otters	\vdash	┝-	⊢	\vdash

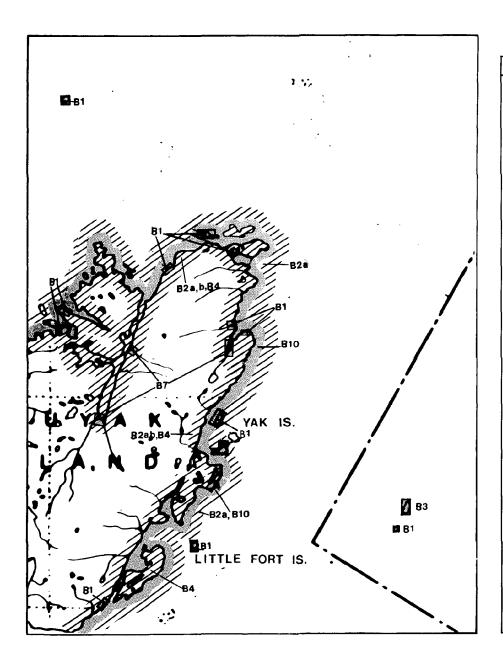




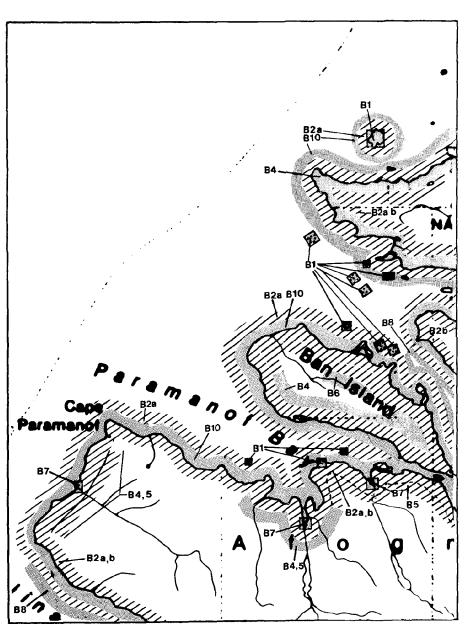


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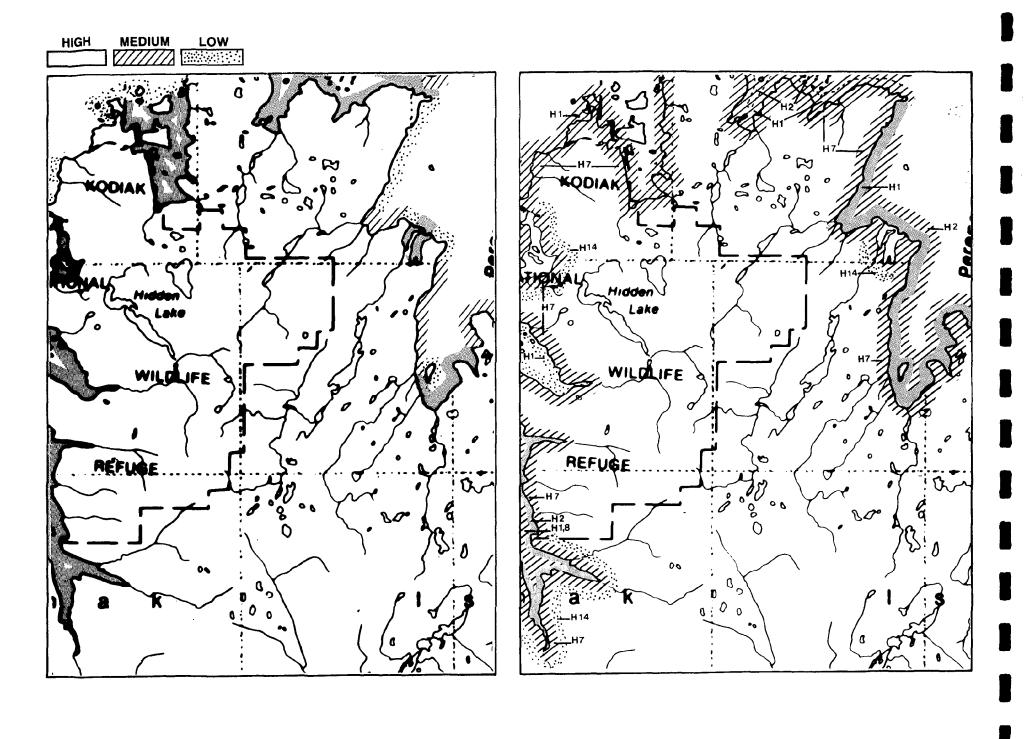


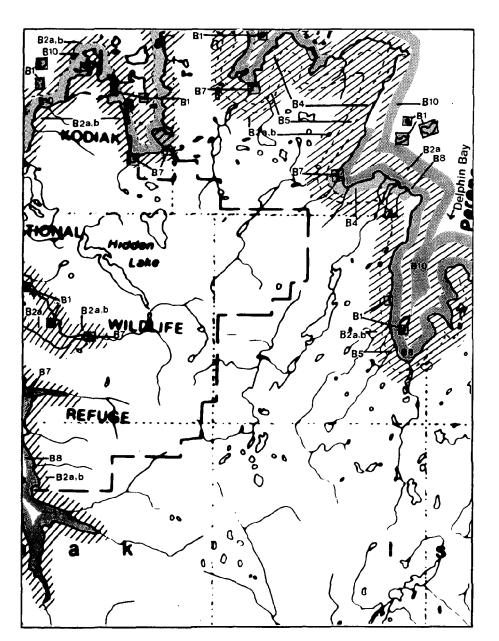


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B-10	Sea Otters	_	\vdash	Η-	H	_	\vdash	_	Η-	_	\vdash	\vdash	_

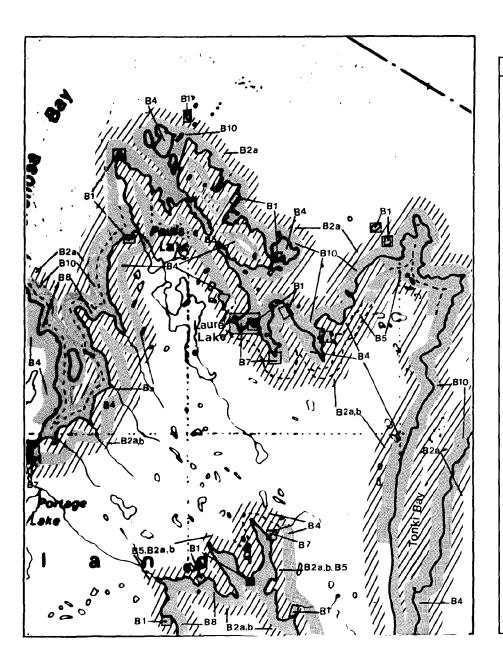


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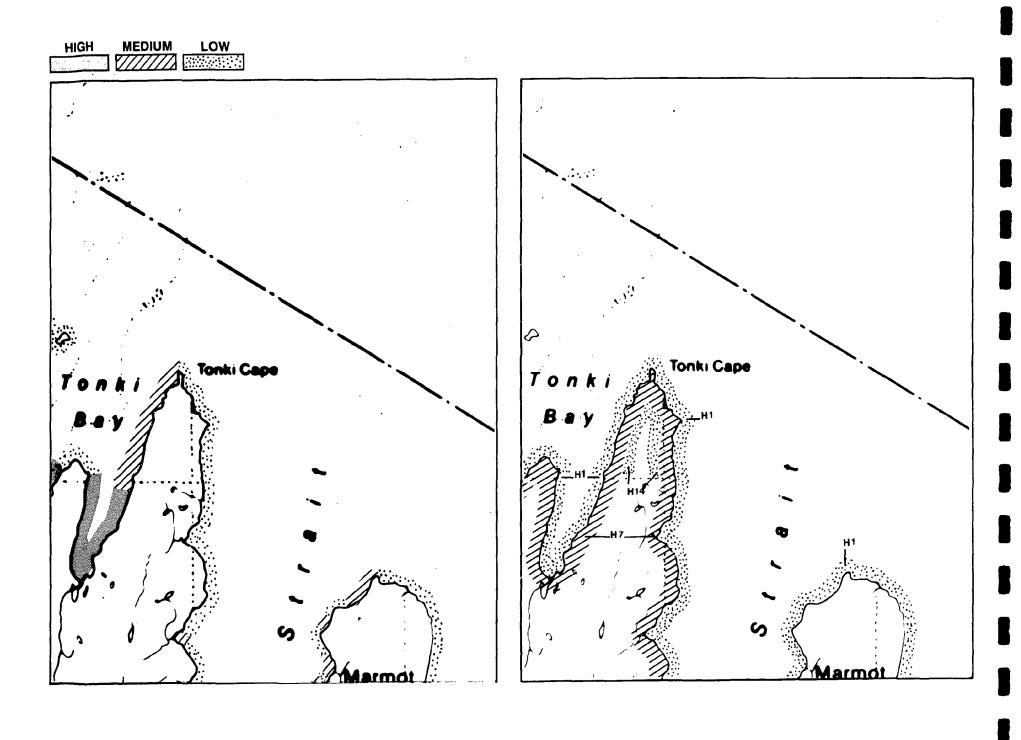


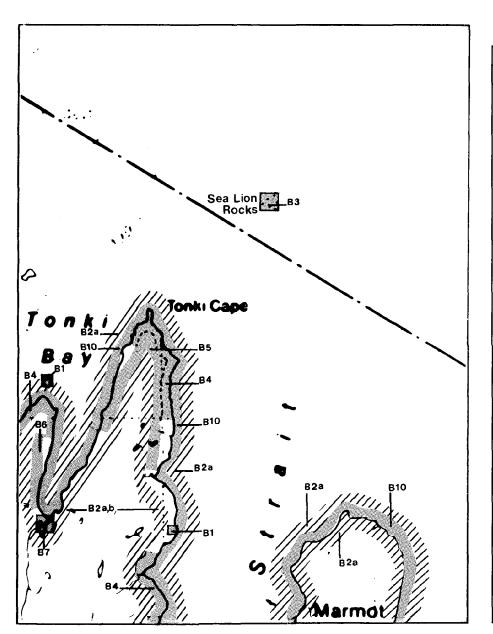


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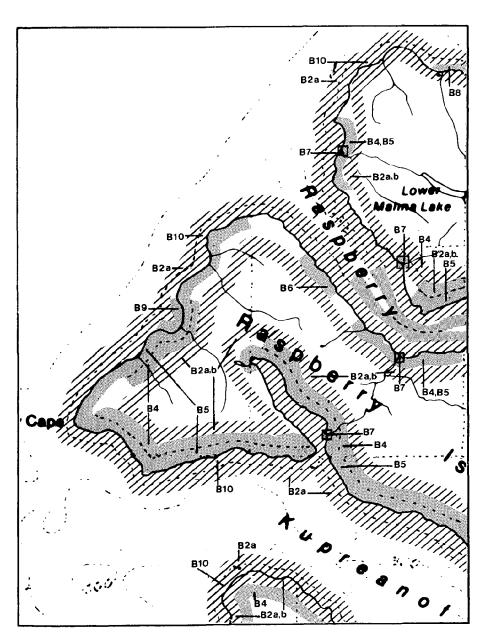


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H-2 Roe Herring H-3 Crab H-4 Shrimp H-5 Halibut H-6 Whitefish													
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H-12 Halibut/Marine Fish H-13 Salmon Recreation H-14 Recreation Use Area H-15 Recreation Facility Infrastructure													
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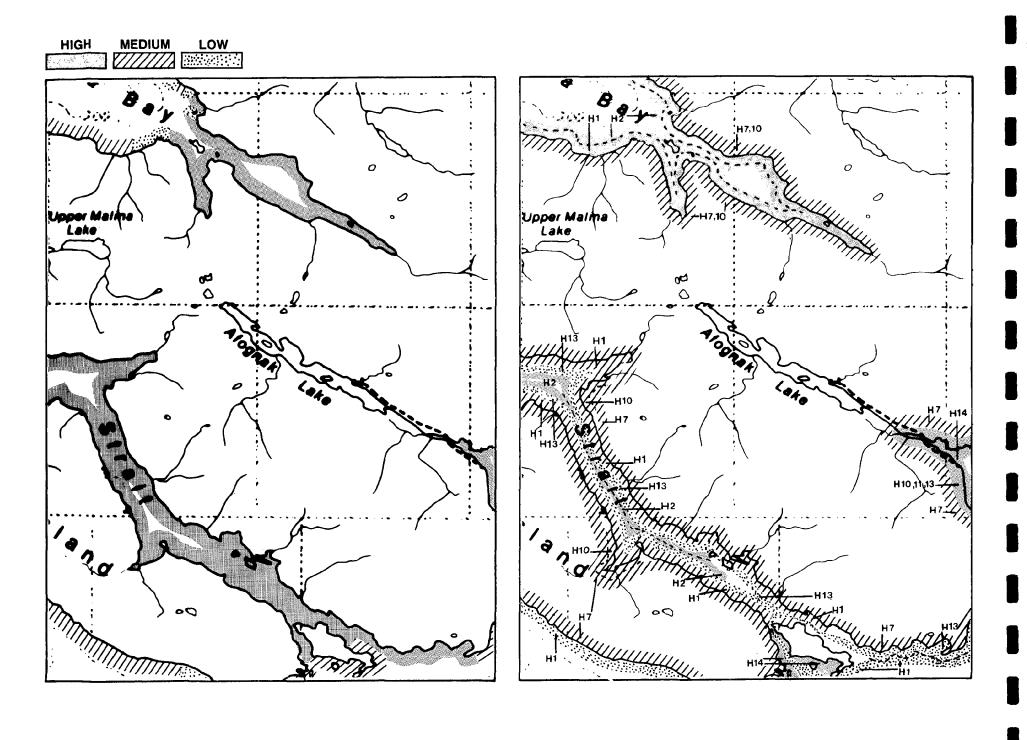


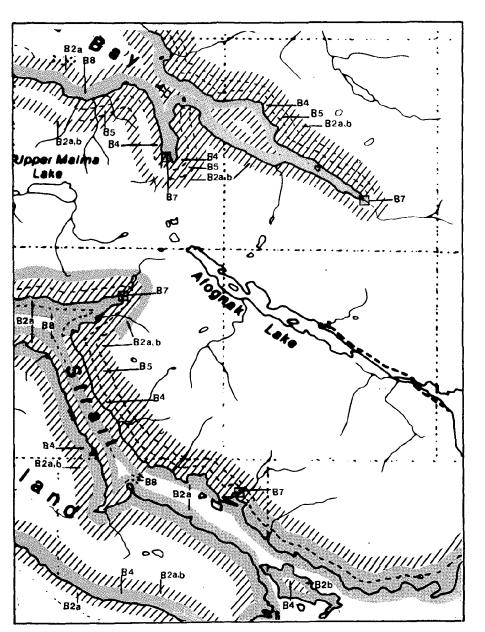


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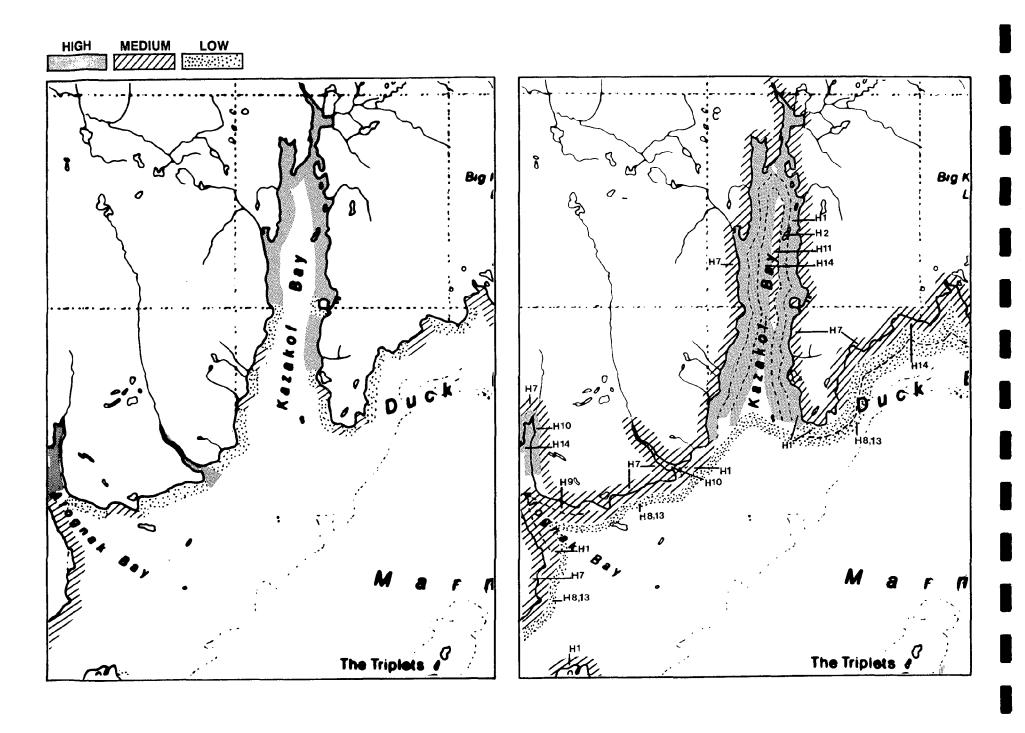


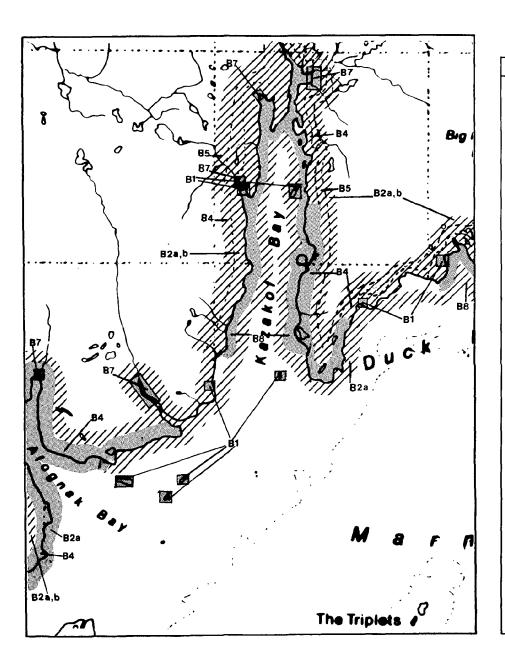
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H-7	Deer/Elk/Reindeer	├	l	(ļ	ļ	\ ∙	{	ι .		(, ,	_
H-8	Marine Mammal		l	1	1		i]	ļ		1.	
H-9	Crab	ı	l			ł		ĺ				ļ	
H-10	Waterfowl	<u> </u>	-	├—	┝-	-	_	4]		┝	_	-
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B-9	Razor Clam Beach	İ		1	l			1	l		1	ı	
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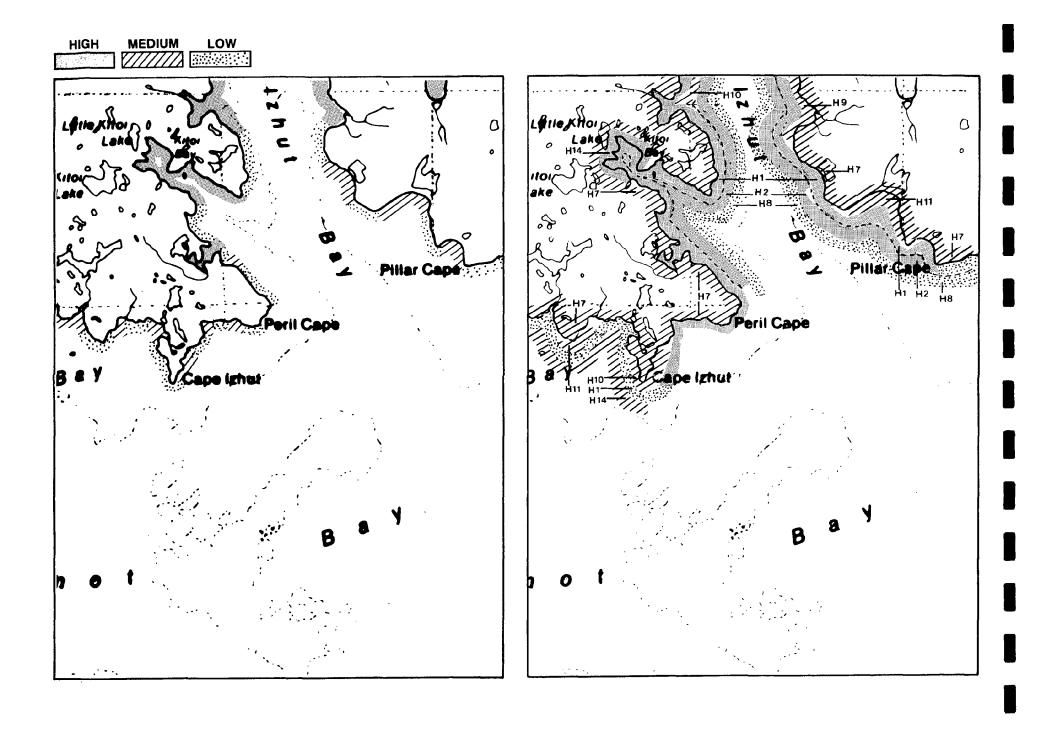


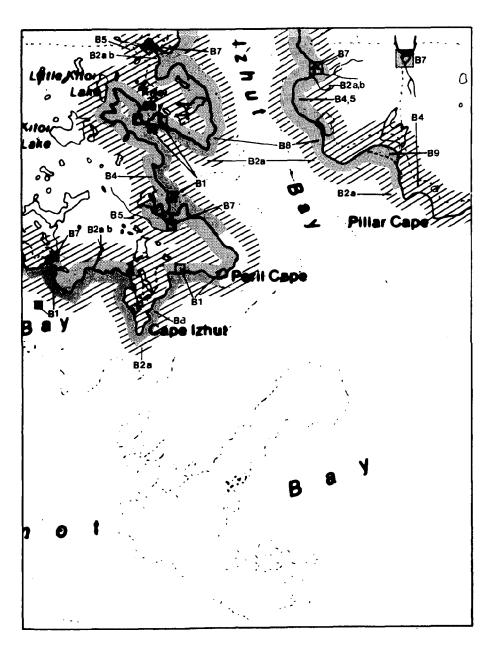
MAP NUMBER 11 Winter | Spring | Summer RESOURCE DJFMAMJJASON OIL RESIDENCE Rocky Headlands R-2 Wave-Cut Platforms Sand Beaches/Exposed Tidal Flats R-3 R-4 Mixed Sand and Gravel Beaches R-5 Gravel Beaches Sheltered Rocky and Gravel Shores R-7 Protected Estuarine Tidal Flats and Marshes **HUMAN USE INDEX** Commercial Fisheries Salmon H-2 Roe Herring H-3 Crab H-4 Shrimp H-5 Halibut H-6 Whitefish Subsistence H-7 Deer/Elk/Reindeer H-8 Marine Mammal H-9 Crab H-10 Waterfowl H-11 Clams H-12 Halibut/Marine Fish H-13 Salmon Recreation Recreation Use Area Recreation Facility H-15 Infrastructure H-16 Boat Harbor H-17 Dock H-18 Concentration of Commercial & Residential Property BIOLOGICAL INDEX Onshore Seabird Colony Waterfowl (overwintering) B-2a B-2b Waterfowl (summer use) B-3 Sea Lion Haul-out B-4 Black Tail Deer B-5 Elk B-6 Brown Bear Offshore B-2a Waterfowl (overwintering) Waterfowl (summer use) Anadromous Fish Streams Salmon - Adults Salmon - Juveniles Char/Dolly Varden · Adults Char/Dolly Varden - Juveniles Steelhead - Adults Steelhead - Juveniles Herring Spawning Area B-8 B-9 Razor Clam Beach

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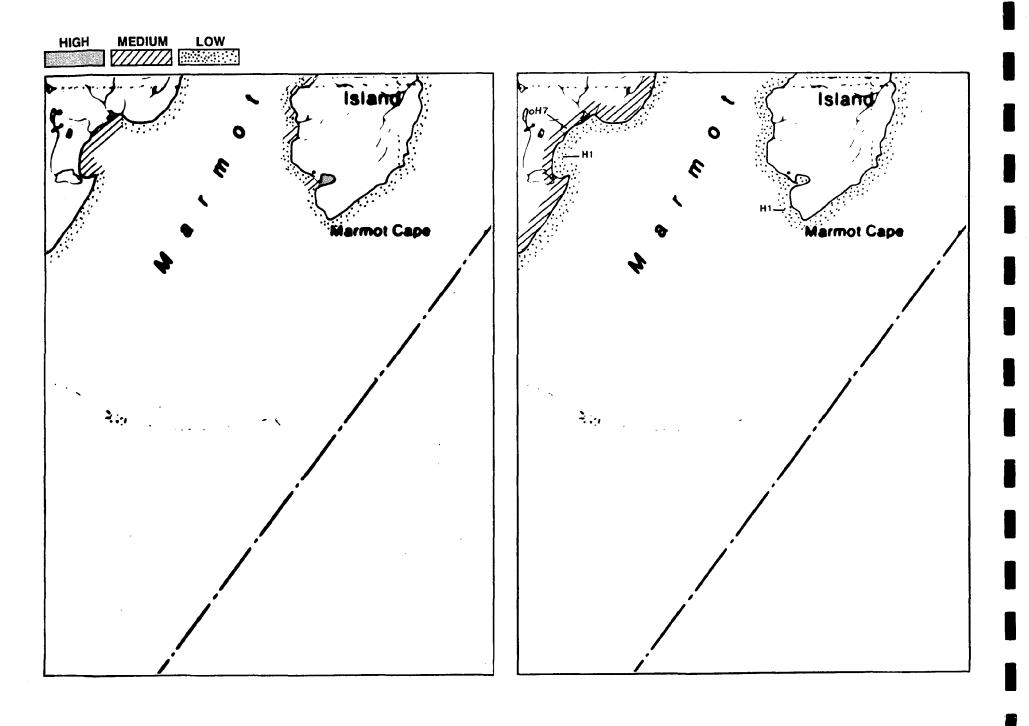
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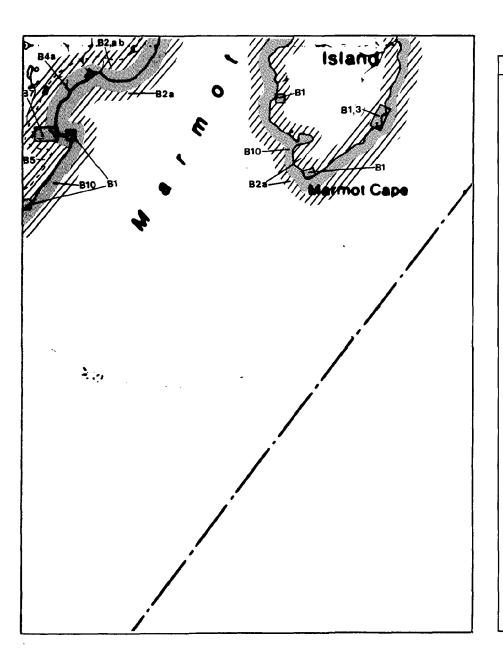
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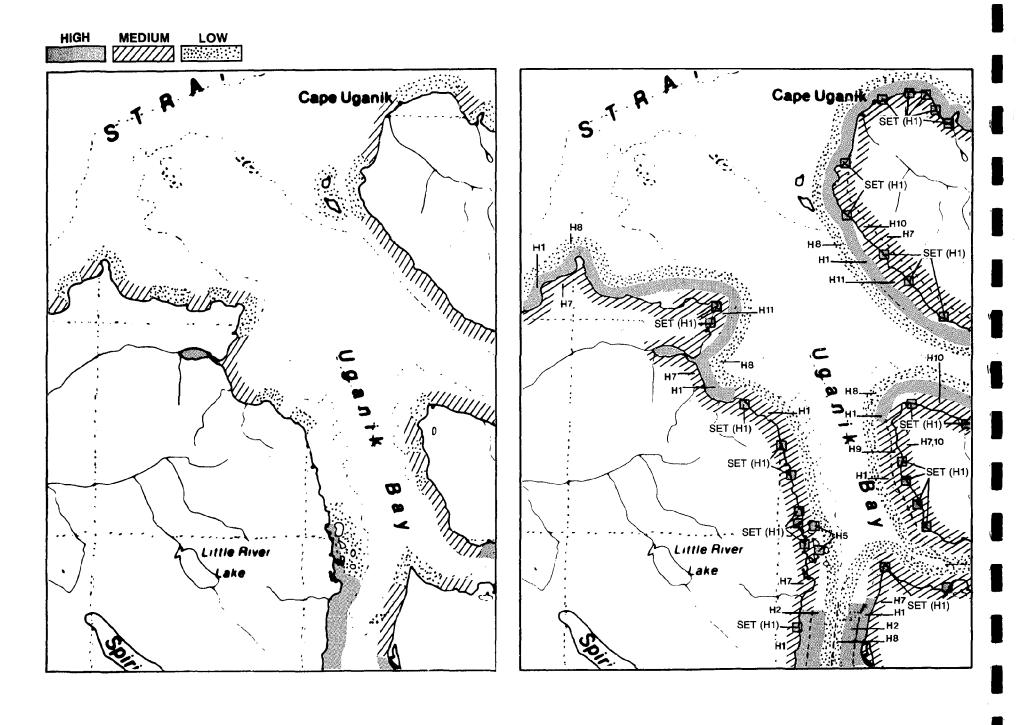


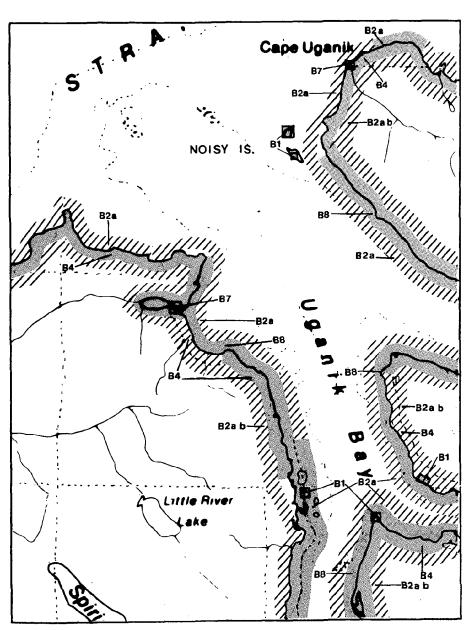


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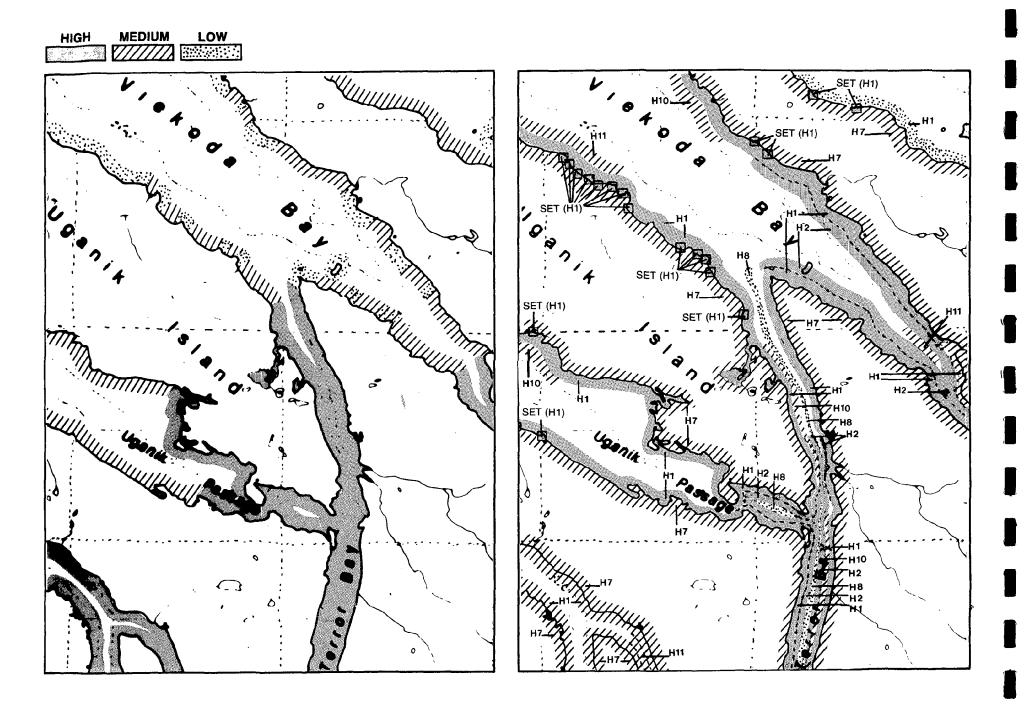
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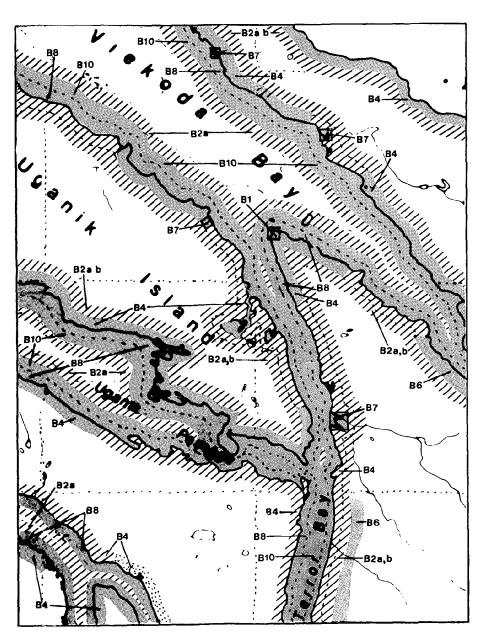
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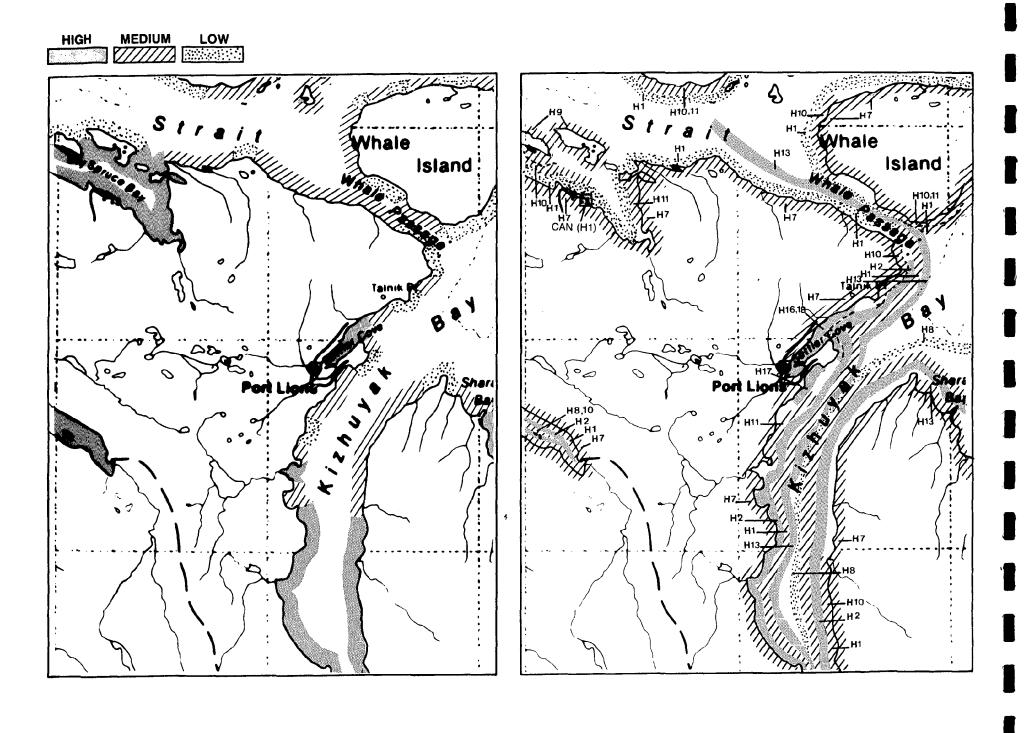


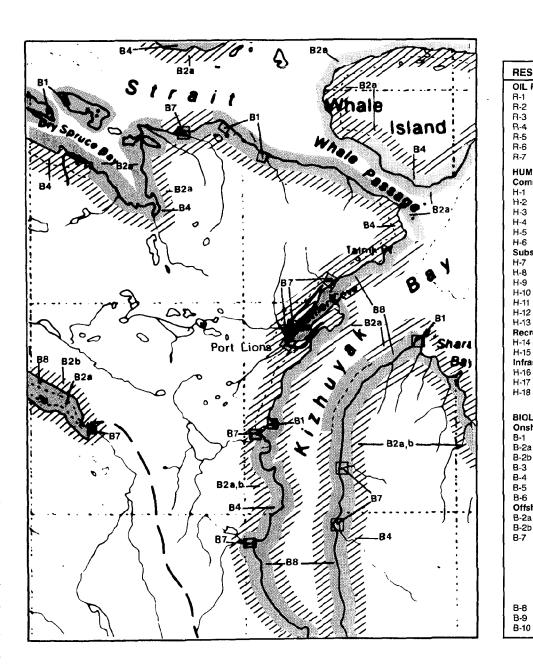
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H-9 Crab	
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H-14 Recreation Use Area	- 1
H-15 Recreation Facility	l l
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H-16 Boat Harbor	
H-17 Dock	
H-18 Concentration of Commercial & Residential	
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B-2b Waterfowl (summer use) B-3 Sea Lion Haul-out	
B-4 Black Tail Deer	
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B-6 Brown Bear	ı İ
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B-7 Anadromous Fish Streams	
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Salmon - Juveniles	工
Char/Dolly Varden - Adults	
Char/Dolly Varden - Juveniles	
Steelhead - Adults	
Steelhead - Juveniles	1
B-8 Herring Spawning Area	
B-9 Razor Clam Beach	
B-10 Sea Otters	





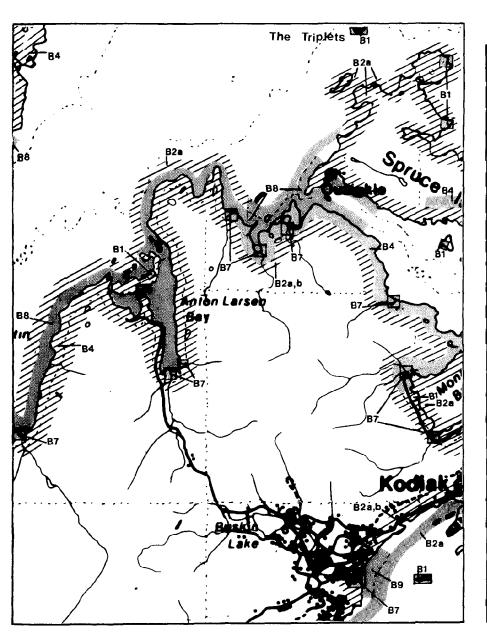
MAP NUMBER 17 Spring Summer Fall Winter RESOURCE DJFMAMJJA SON OIL RESIDENCE Rocky Headlands Wave-Cut Platforms R-1 R-3 Sand Beaches/Exposed Tidal Flats Mixed Sand and Gravel Beaches Gravel Beaches R-6 Sheltered Rocky and Gravel Shores Protected Estuarine Tidal Flats and Marshes **HUMAN USE INDEX** Commercial Fisheries H-1 Salmon Roe Herring H-2 Crab H-3 Shrimp H-4 H-5 Halibut Whitefish H-6 Subsistence Deer/Elk/Reindeer H-7 Marine Mammal H-8 Crab H-9 H-10 Waterfowl H-11 Clams H-12 Halibut/Marine Fish H-13 Salmon Recreation H-14 Recreation Use Area H-15 Recreation Facility Infrastructure H-16 Boat Harbor H-17 Dock H-18 Concentration of Commercial & Residential Property **BIOLOGICAL INDEX** Onshore B-1 Seabird Colony Waterfowl (overwintering) B-2b Waterfowl (summer use) Sea Lion Haui out B-3 B-4 Black Tail Deer B-5 Elk B-6 Brown Bear Offshore B-2a Waterfowl (overwintering) Waterfowl (summer use) B-2b

Anadromous Fish Streams Salmon - Adults Salmon - Juveniles Char/Dolly Venden - Adults Char/Dolly Varden - Juveniles Steelhead - Adults Steelhead - Juveniles

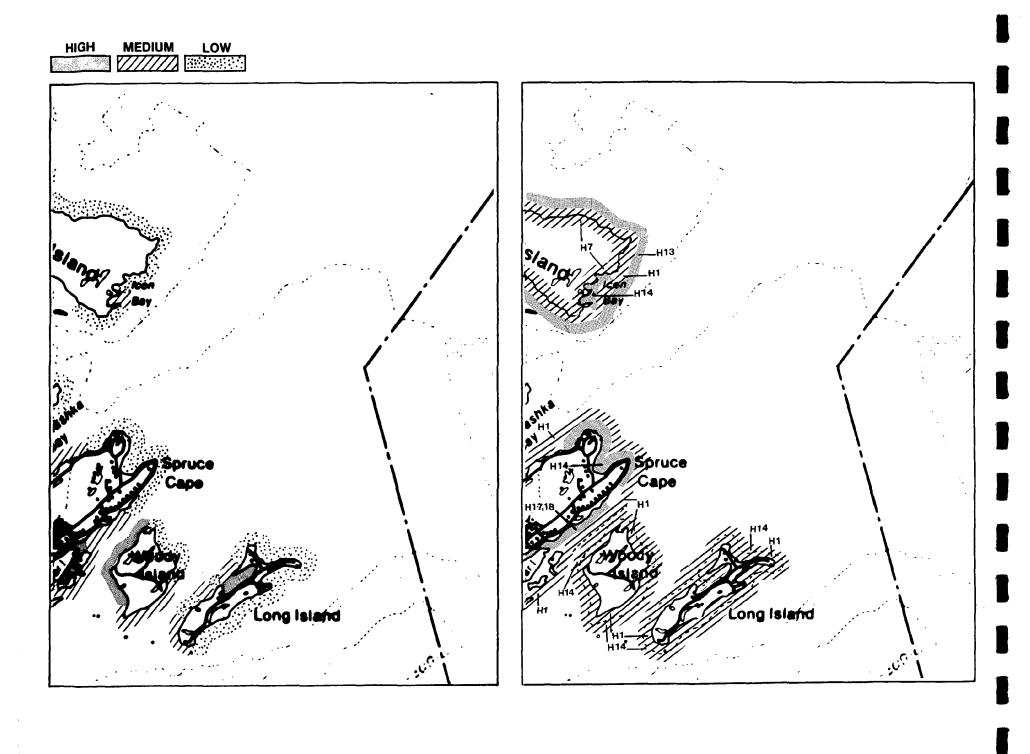
Herring Spawning Area Razor Clam Beach

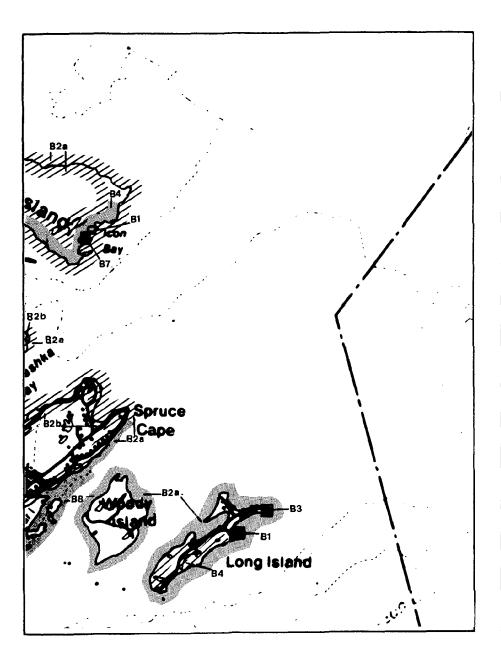
Sea Otters

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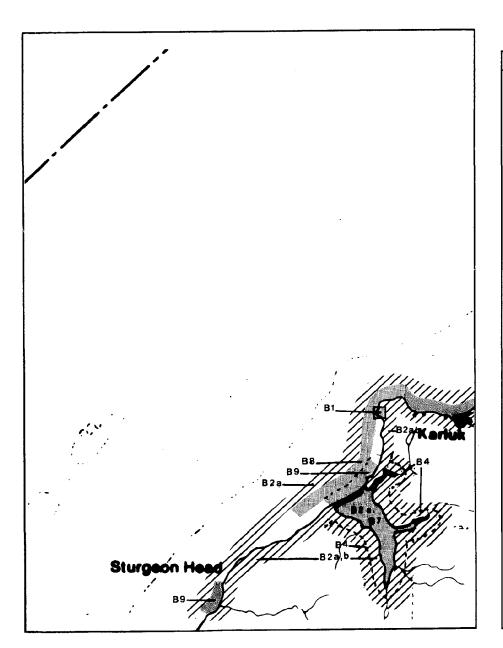
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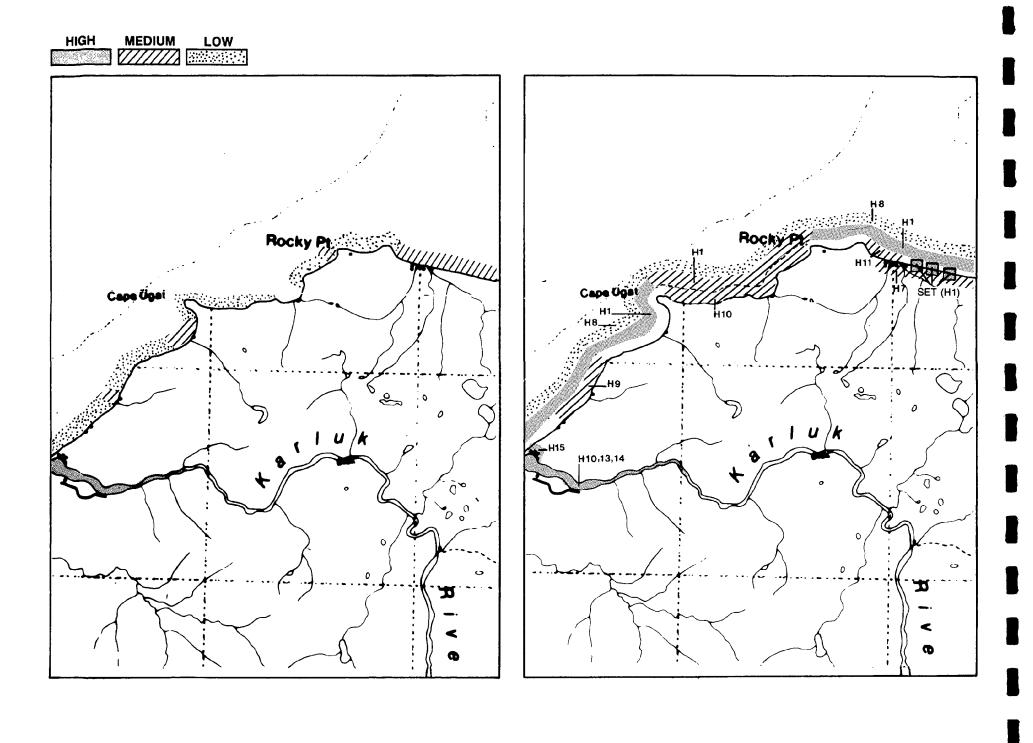


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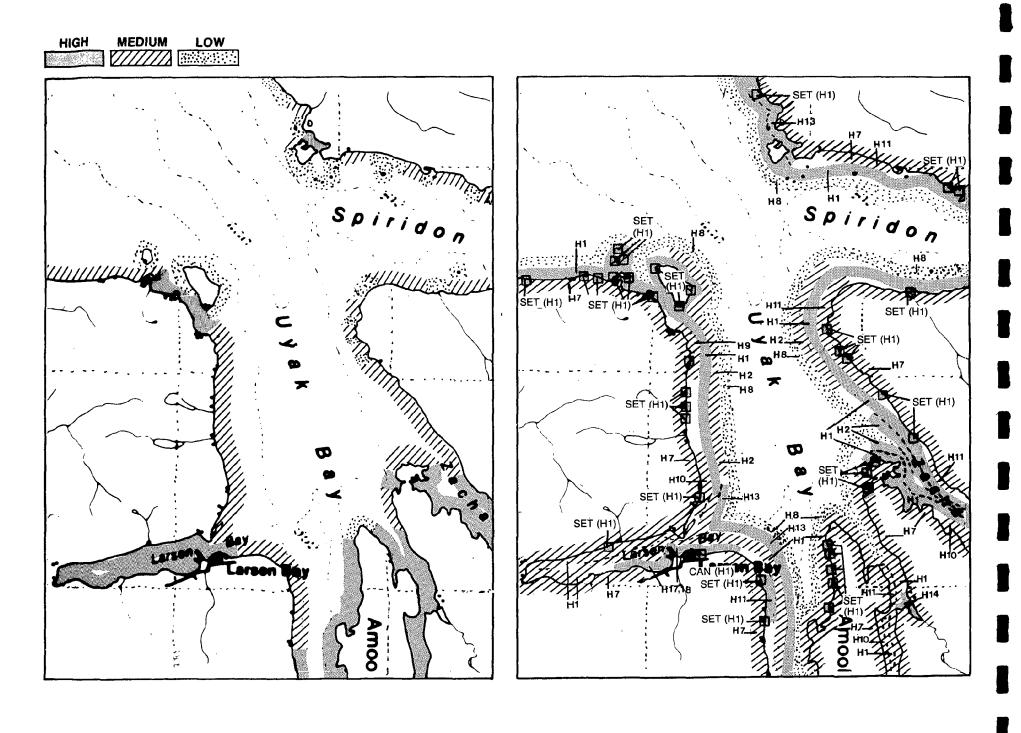
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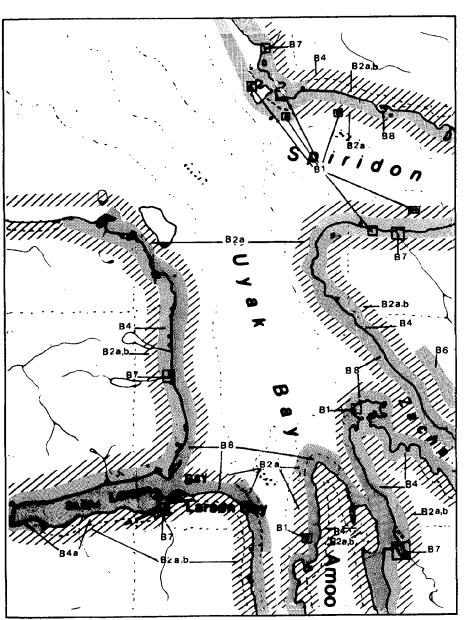


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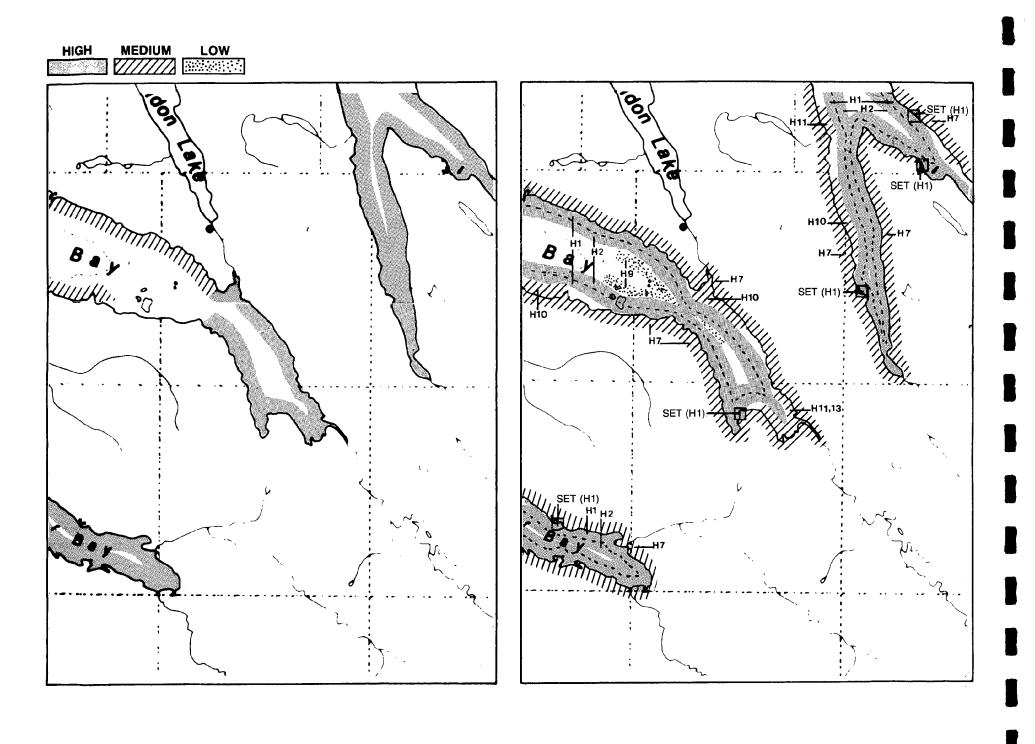
MAP NUMBER 21 Winter | Spring |Summer DJFMAMJJASON RESOURCE OIL RESIDENCE Rocky Headlands Wave-Cut Platforms Sand Beaches/Exposed Tidal Flats R-3 Mixed Sand and Gravel Beaches R-4 A-5 Gravel Beaches H-6 Sheltered Rocky and Gravel Shores Protected Estuarine Tidal Flats and Marshes HUMAN USE INDEX Commercial Fisheries Salmon H-2 Roe Herring H-3 Crab H-4 Shrimp H-5 Halibut Whitefish H-6 Subsistence Deer/Elk/Reindeer H-8 Marine Mammal H-9 Crab H-10 Waterfowl Clams H-11 H-12 Halibut/Marine Fish H-13 Salmon Recreation H-14 Recreation Use Area H-15 Recreation Facility Infrastructure H-16 Boat Harbor H-17 Dock H-18 Concentration of Commercial & Residential Property **BIOLOGICAL INDEX** Onshore Seabird Colony Waterfowl (overwintering) Waterfowl (summer use) B-3 Sea Lion Haul-out B-4 Black Tail Deer B-5 Εlk B-6 Brown Bear Offshore B-2a Waterfowl (overwintering) Waterfowl (summer use) Anadromous Fish Streams Salmon - Adults Salmon - Juveniles Char/Dolly Varden - Adults Char/Dolly Varden - Juveniles Steelhead - Adults Steelhead - Juveniles Herring Spawning Area Razor Clam Beach

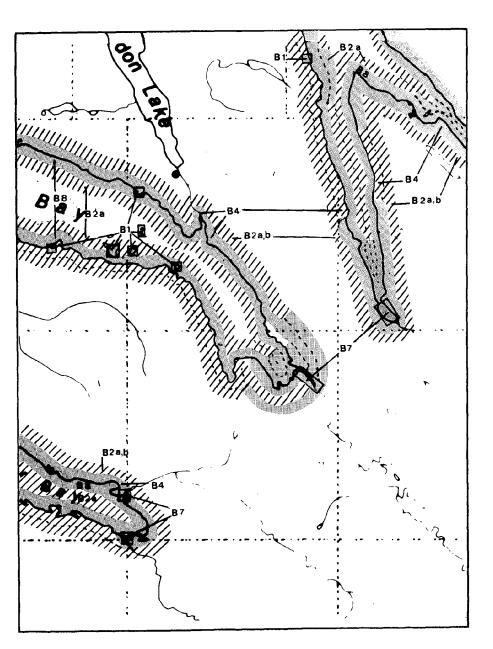
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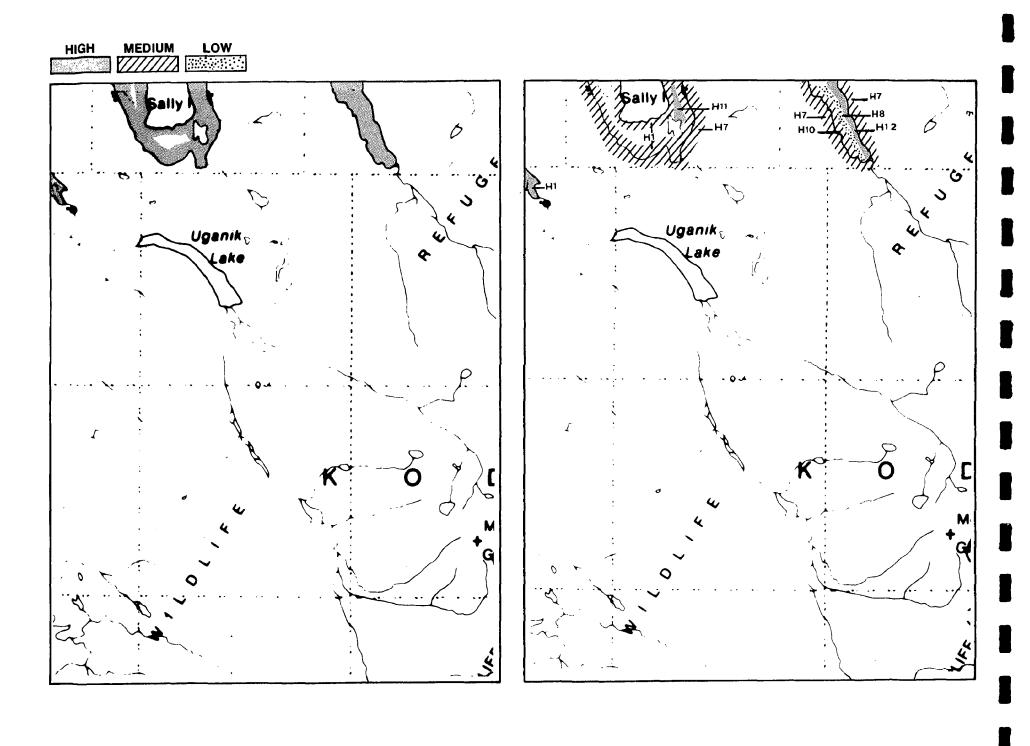


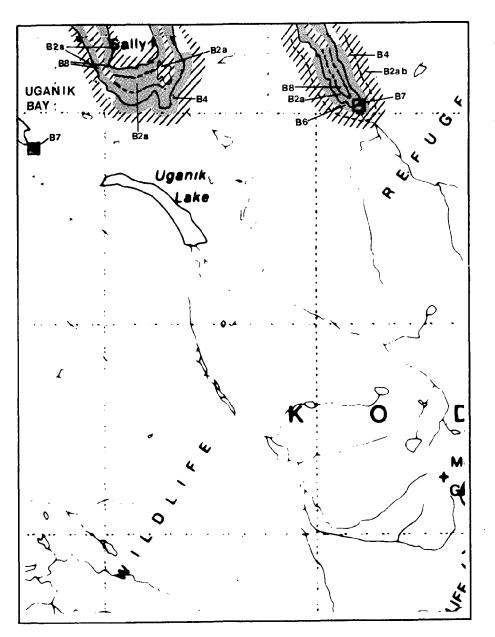
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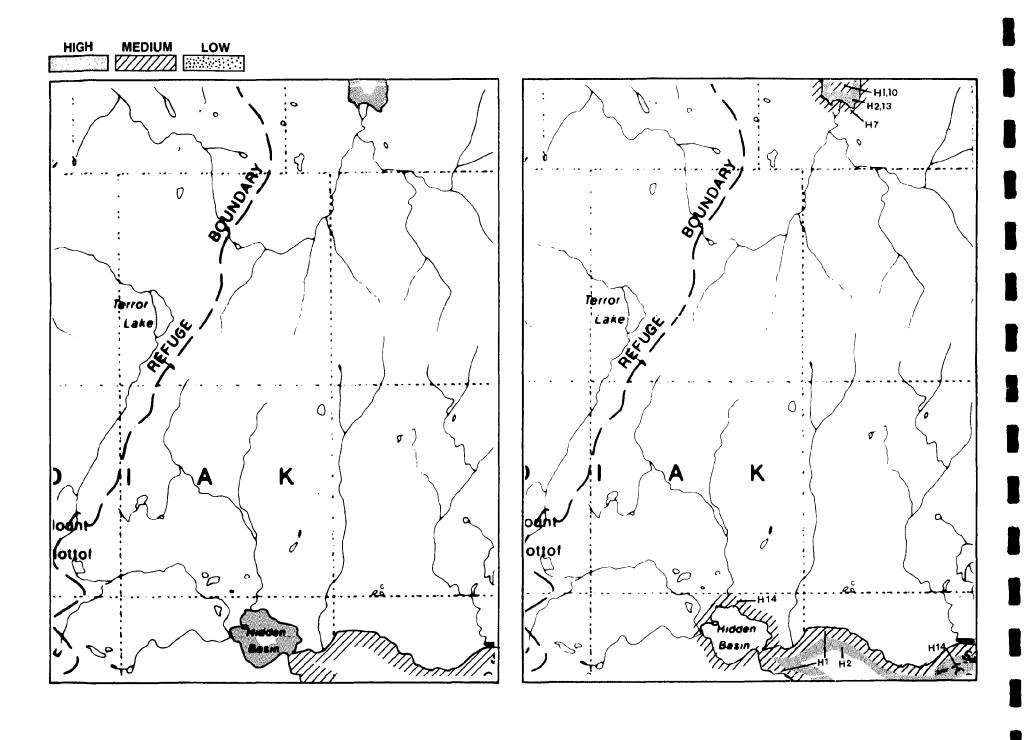


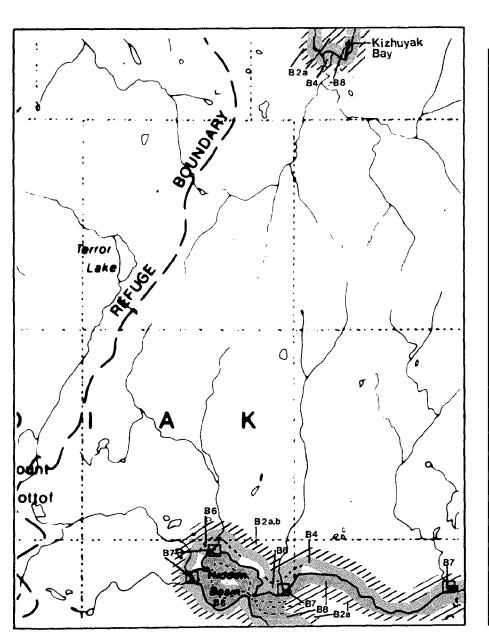
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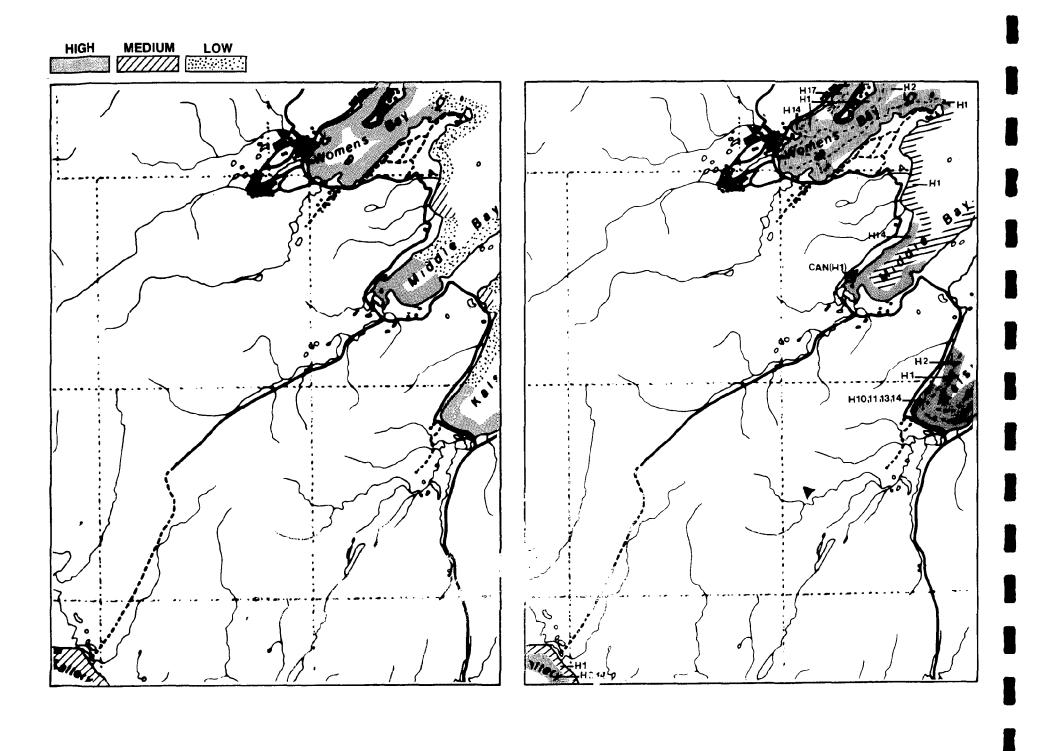


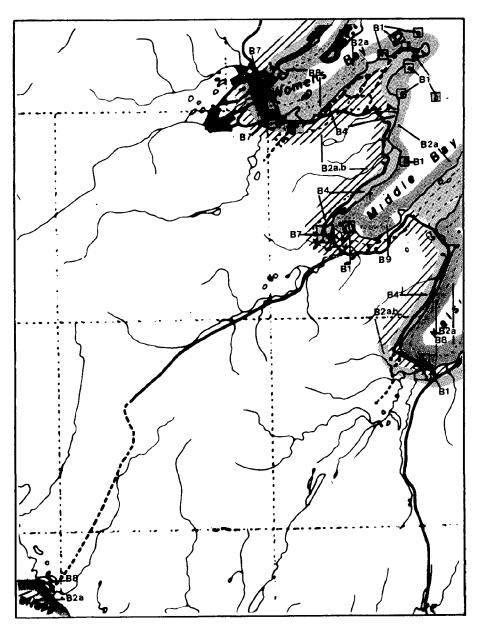
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R-2	Wave-Cut Platforms	_	_	┝	-	-	\vdash	-	-	-	\vdash	_	-
R-3	Sand Beaches/Exposed Tidal Flats	_	Η-	┢	⊢		-	\vdash	_	_	_	_	_
R-4	Mixed Sand and Gravel Beaches	-	┢━	\vdash	⊢		_	_	_	_	_	_	_
R-5	Gravel Beaches	<u> </u>	_	-	Н	-	_	Н			_	_	_
R-6	Sheltered Rocky and Gravel Shores	┝		┝	-	-	-	⊢	_				
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H-2	Roe Herring					-		-	ŀ				
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H-4	Shrimp	ĺ			l			ı		ı			İ
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H-6	Whitefish	l						ı		l	Ι.	1	ŀ
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H-7	Deer/Elk/Reindeer				Ι.								_
H-8	Marine Mammal	\vdash	H	⊢		_		-		-		_	-
H-9	Crab		ļ.				ļ		ļ				l
H-10	Waterfowl	\vdash	_	\vdash	_		l	ı	1	ı		_	_
H-11	Clams	 	_	┢	-	\vdash	H	-	┢	\vdash	_	-	_
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H-13	Salmon												
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H-14	Recreation Use Area												i
H-15	Recreation Facility	t		l									
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B-2b	Waterfowl (summer use)						 _		Ц_		L	_	
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B-4	Black Tail Deer	<u> </u>		_									_
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	Salmon - Juveniles		_		L.,	_		L					_
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B-8	Herring Spawning Area	l			I	l	l	l	i	l	l	l	
B-9	Razor Clam Beach		_	_	┖-	L	ldash	_		_	_	_	_
B-10	Sea Otters					Ι [l				
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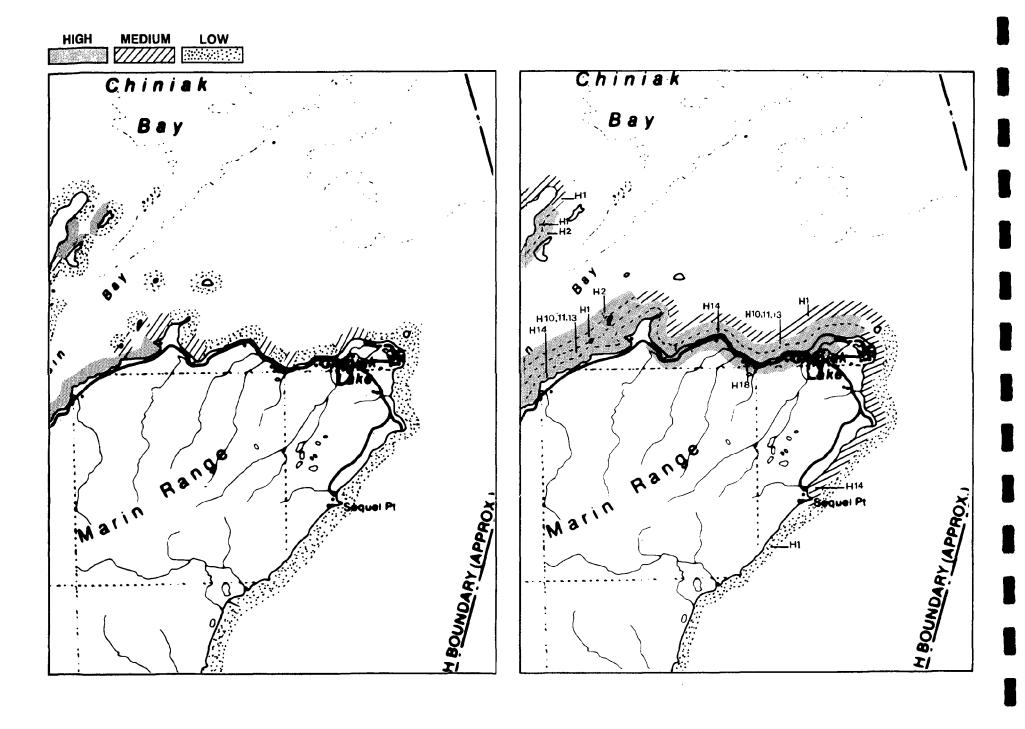


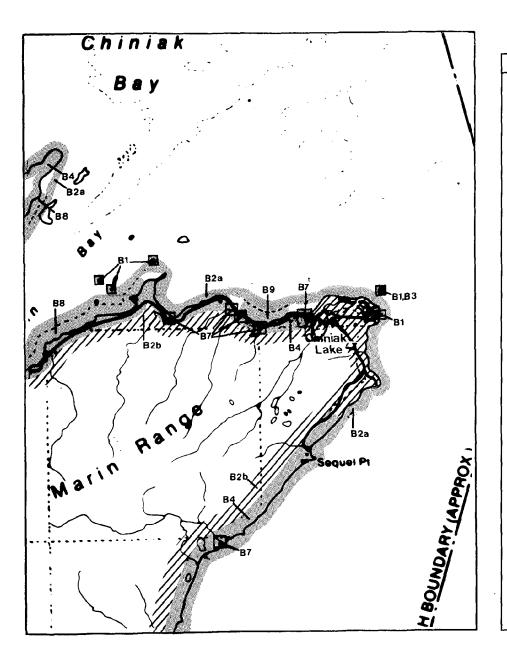
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R-3	Sand Beaches/Exposed Tidal Flats Mixed Sand and Gravel Beaches												
R-4	Gravel Beaches							L		Ц			
R-6	Sheltered Rocky and Gravel Shores								<u> </u>				
H-7	Protected Estuarine Tidal Flats and Marshes	_	Щ	_	_	_	Щ	┕	<u> </u>	L		_	
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H-4	Shrimp		l						l				
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H-12	Halibut/Marine Fish	1	1	ì	1]	1	1]				
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B-2b	Waterfowl (summer use)		ı		l		_	L	<u> </u>	_			
B-3	Sea Lion Haul-out	1	i	l	1	1	l	1	i ') '	<u>'</u>
B-4	Black Tail Deer	-	┝	-	-				l			l	_
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B-10	Sea Otters	1	l	l	l			ı	1	l	l	ı	1



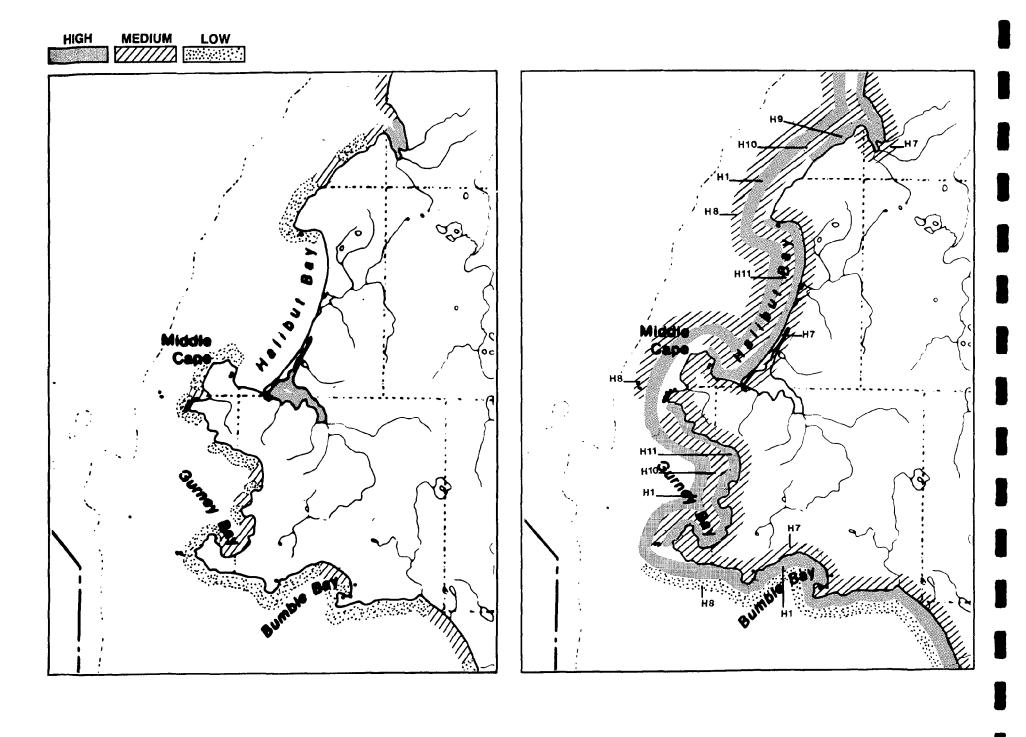


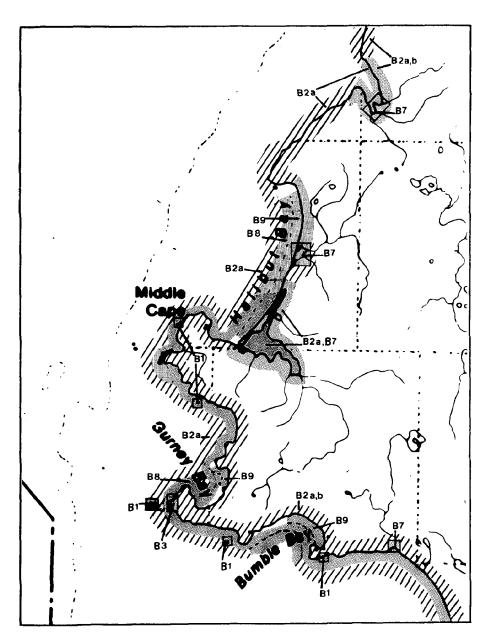
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H-12	Halibut/Marine Fish												
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B-2b	Waterfowl (summer use)	ĺ				-	⊢	⊢-	ŀ	l			
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B-2b	Waterfowl (summer use)								l	l			1
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B-9	Razor Clam Beach Sea Otters	-	⊢	⊢	\vdash		-	-	\vdash	\vdash	⊢	-	-
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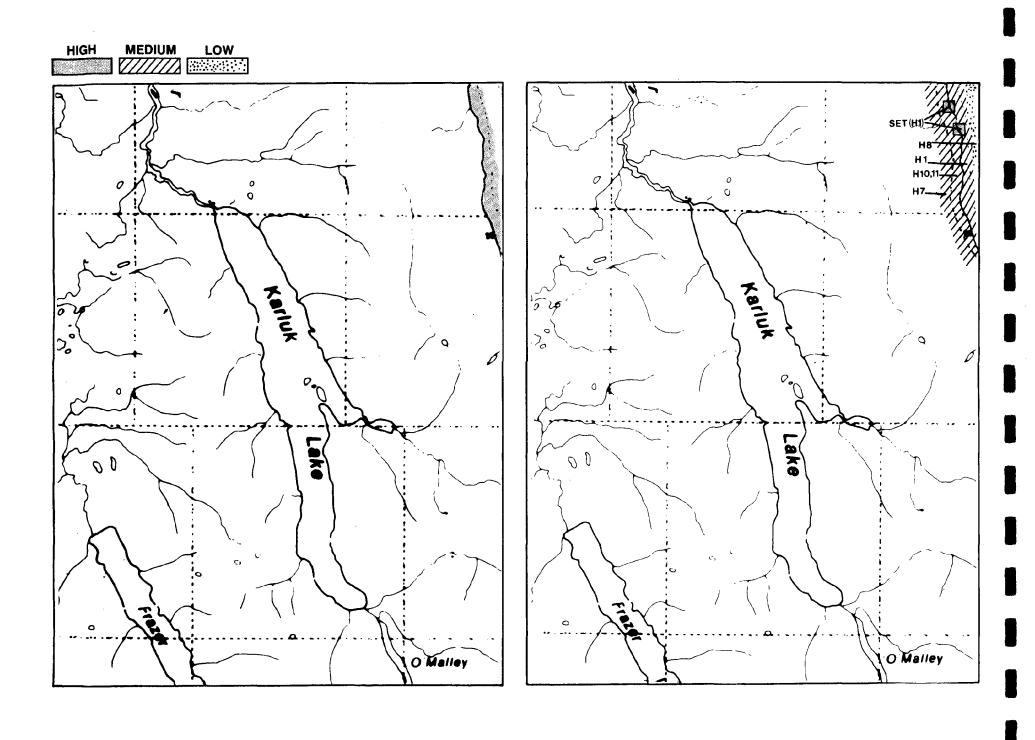


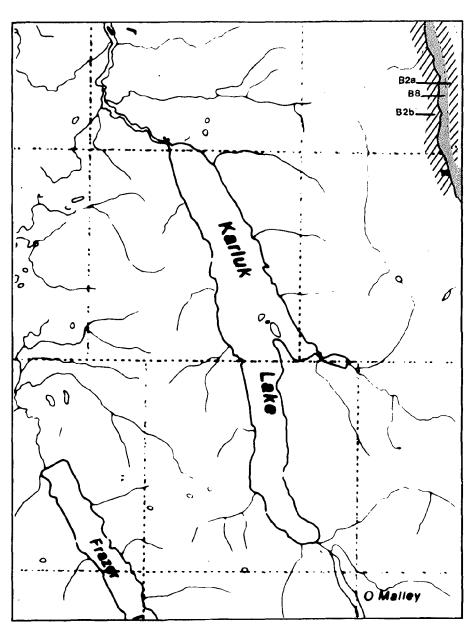
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B-10	Sea Otters												
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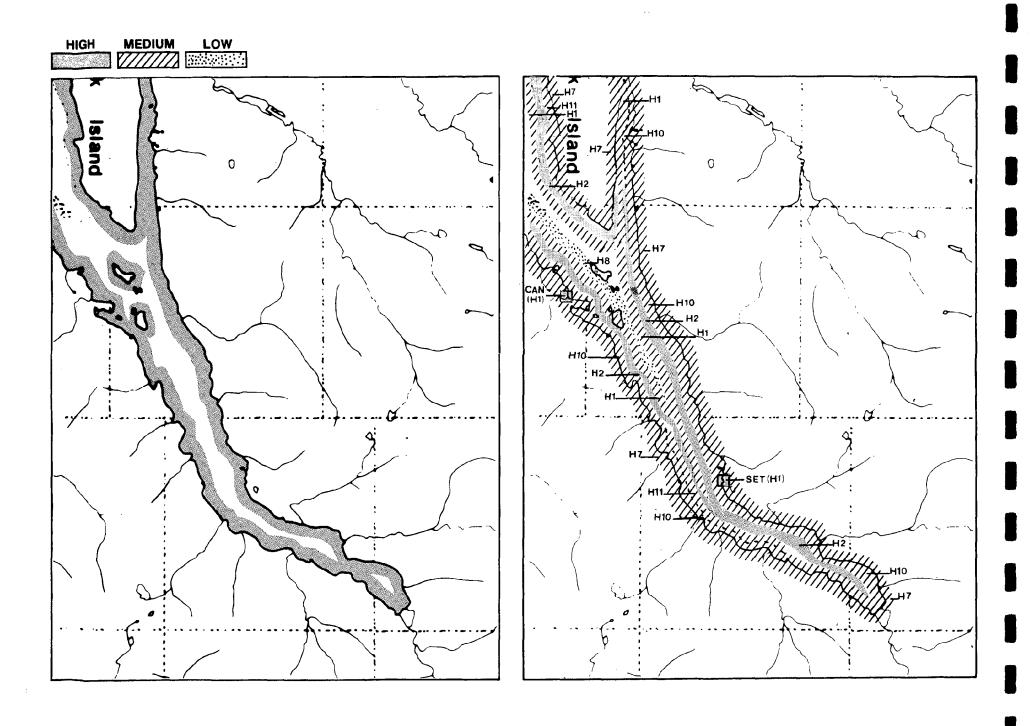


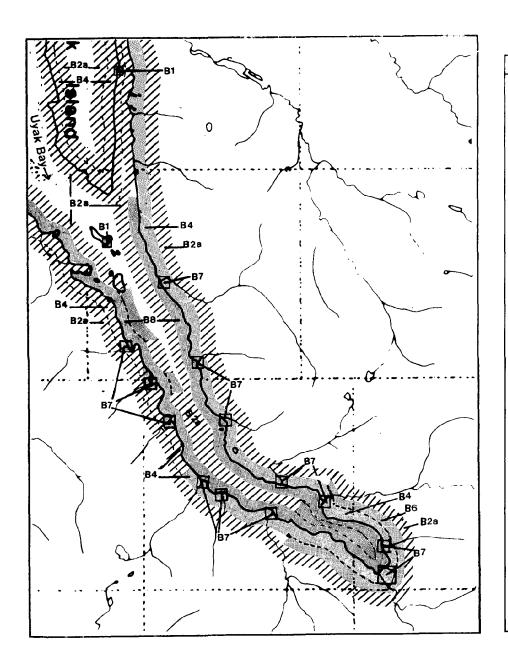
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R-3	Sand Beaches/Exposed Tidal Flats	_	├	┢	-	_	┢	_	H	_	_		_
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B-2b	Waterfowl (summer use)					1	1		l				
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H-9	Crab												Г	
H-10	Waterfowl			<u> </u>							ĺ		L	
H-11	Clams												L	
H-12	Halibut/Marine Fish												Γ	
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B-2b	Waterfowl (summer use)			ı	ı								1	
B-7	Anadromous Fish Streams	1	١	1	1	Ì	١						١	
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	Steelhead - Juveniles		l					,						
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B-9 B-10	Razor Clam Beach	- 1		l			ı	l						
	Sea Otters													





MAP NUMBER 30 Spring Summer Winter DJFMAMJJASON RESOURCE OIL RESIDENCE Rocky Headlands Wave-Cut Platforms R-3 Sand Beaches/Exposed Tidal Flats Mixed Sand and Gravel Beaches Gravel Beaches R-6 Sheltered Rocky and Gravel Shores Protected Estuarine Tidal Flats and Marshes **HUMAN USE INDEX** Commercial Fisheries Salmon H-1 H-2 Roe Herring H-3 Crab H-4 Shrimp H-5 Halibut H-6 Whitefish Subsistence H-7 Deer/Elk/Reindeer Marine Mammal H-9 Crab H-10 Waterfowl H-11 Clams H-12 Halibut/Marine Fish H-13 Salmon Recreation H-14 Recreation Use Area H-15 Recreation Facility Infrastructure H-16 Boat Harbor H-17 Dock Concentration of Commercial & Residential Property **BIOLOGICAL INDEX** Onshore B-1 Seabird Colony Waterfowl (overwintering) B-2a Waterfowl (summer use) B-3 Sea Lion Haul-out B-4 Black Tail Deer B-5 Elk B-6 Brown Bear Offshore B-2a Waterfowl (overwintering) B-2b Waterfowl (summer use) Anadromous Fish Streams Salmon - Adults Salmon - Juveniles Char/Dolly Varden - Adults Char/Dolly Varden - Juveniles

Steelhead - Adults Steelhead - Juveniles

Razor Clam Beach

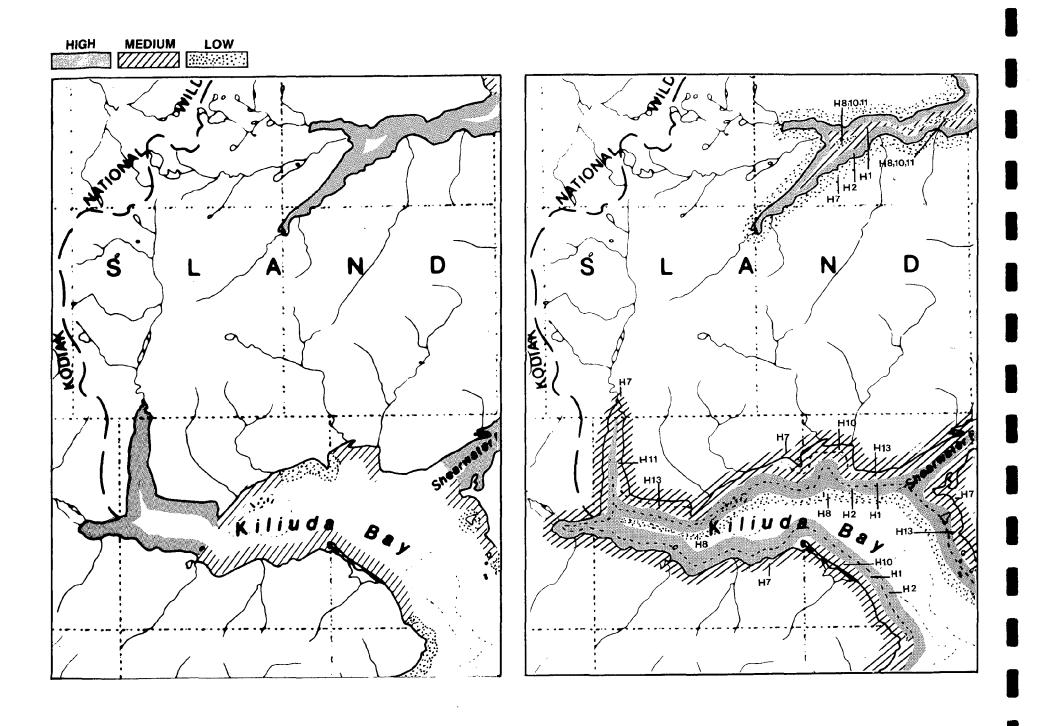
Sea Otters

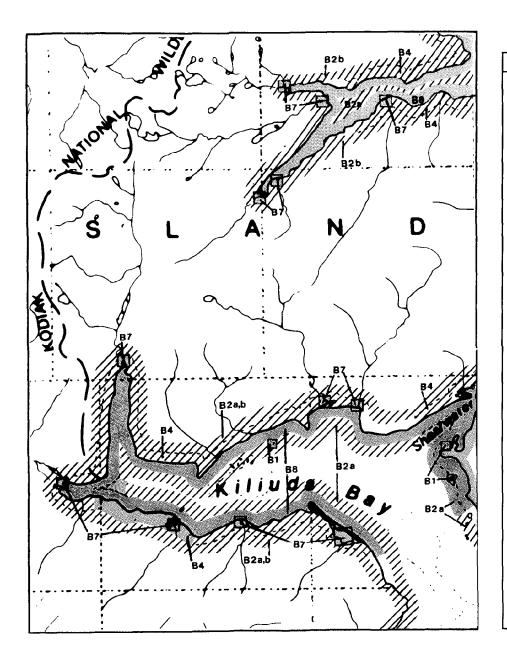
Herring Spawning Area

B-8

B-9

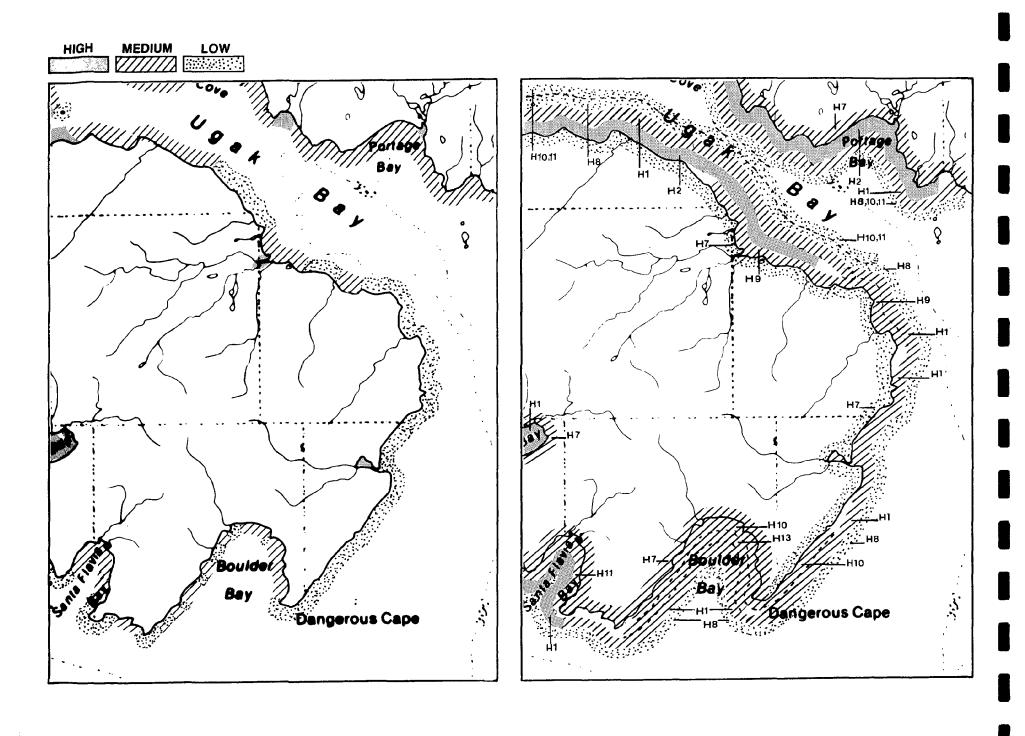
B-10

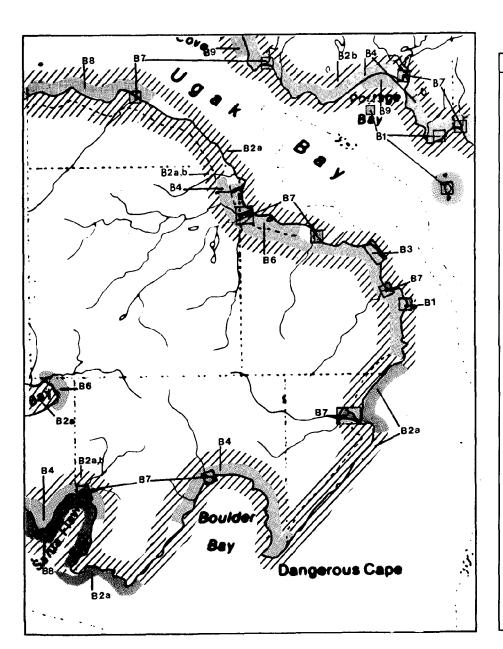




MAP NUMBER 31 Winter | Spring | Summer Fall DJFMAMJJASON RESOURCE OIL RESIDENCE Rocky Headlands Wave-Cut Platforms Sand Beaches/Exposed Tidal Flats R-4 Mixed Sand and Gravel Beaches R-5 Gravel Beaches Sheltered Rocky and Gravel Shores Protected Estuarine Tidal Flats and Marshes **HUMAN USE INDEX** Commercial Fisheries Salmon H-2 Roe Herring H-3 Crab H-4 Shrimp H-5 Halibut H-6 Whitefish Subsistence Deer/Elk/Reindeer Marine Mammal H-9 Crab Waterfowl H-10 H-11 Clams H-12 Halibut/Marine Fish H-13 Salmon Recreation H-14 Recreation Use Area H-15 Recreation Facility Infrastructure H-16 Boat Harbor H-17 Dock Concentration of Commercial & Residential Property **BIOLOGICAL INDEX** Onshore Seabird Colony Waterfowl (overwintering) B-2a Waterfowl (summer use) Sea Lion Haul-out B-3 Black Tail Deer B-4 B-5 Ełk Brown Bear B-6 Offshore Waterfowl (overwintering) B-2b Waterfowl (summer use) Anadromous Fish Streams Salmon - Adults Salmon - Juveniles Char/Dolly Varden - Adults Char/Dolly Varden - Juveniles Steelhead - Adults Steelhead - Juveniles Herring Spawning Area Razor Clam Beach B-10 Sea Otters

23 24 25 31 32 37 38 39





MAP NUMBER 32 Spring Summer DJFMAMJJASON RESOURCE OIL RESIDENCE Rocky Headlands Wave-Cut Platforms Sand Beaches/Exposed Tidal Flats Mixed Sand and Gravel Beaches R-4 Gravel Beaches R-5 Sheltered Rocky and Gravel Shores Protected Estuarine Tidal Flats and Marshes **HUMAN USE INDEX** Commercial Fisheries Salmon Roe Herring H-2 H-3 Crab H-4 Shrimp H-5 Halibut H-6 Whitefish Subsistence Deer/Elk/Reindeer H-8 Marine Mammal H-9 Crab H-10 Waterfowl H-11 Clams Halibut/Marine Fish H-13 Salmon Recreation Recreation Use Area H-15 Recreation Facility Infrastructure Boat Harbor H-17 Dock H-18 Concentration of Commercial & Residential Property **BIOLOGICAL INDEX** Onshore Seabird Colony Waterfowl (overwintering) B-2b Waterfowl (summer use) B-3 Sea Lion Haul-out Black Tail Deer B-4 B-5 Elk B-6 Brown Bear Offshore B-2a Waterfowl (overwintering)

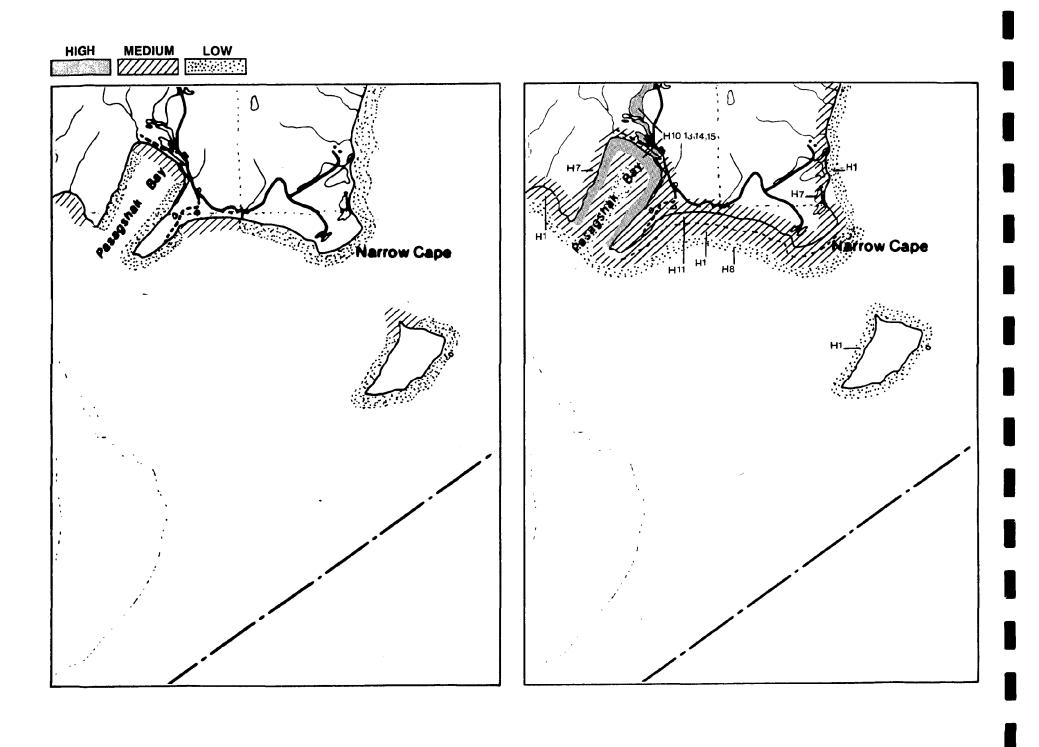
B-2b Waterfowl (summer use)
B-7 Anadromous Fish Streams
Salmon - Adults
Salmon - Juveniles
Char/Dolly Varden - Adults

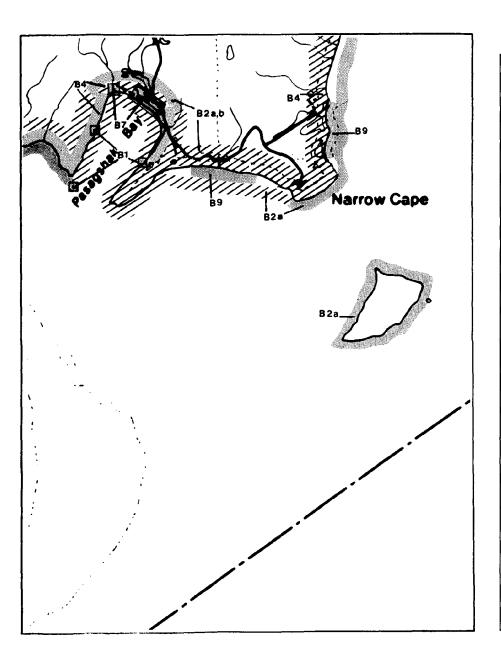
Razor Clam Beach

B-9

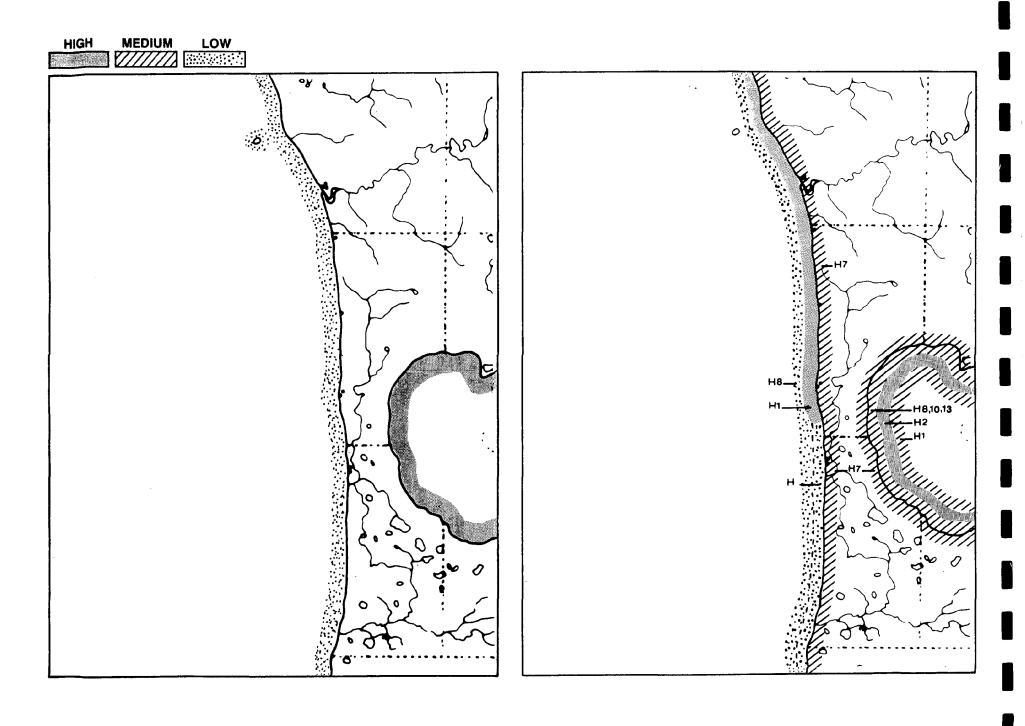
B-10 Sea Otters

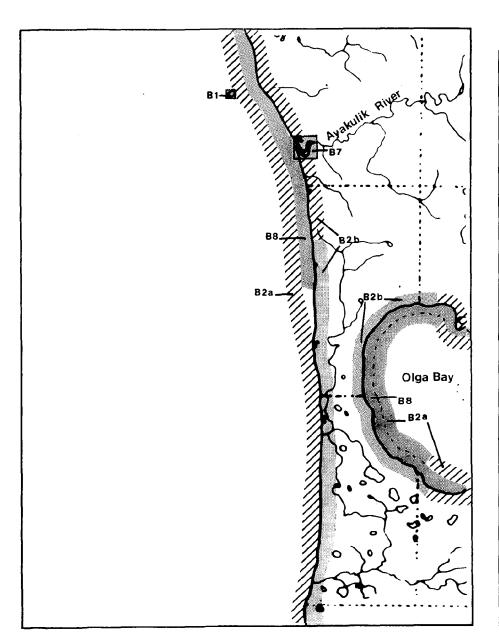
Char/Dolly Varden - Juveniles Steelhead - Adults Steelhead - Juveniles Herring Spawning Area





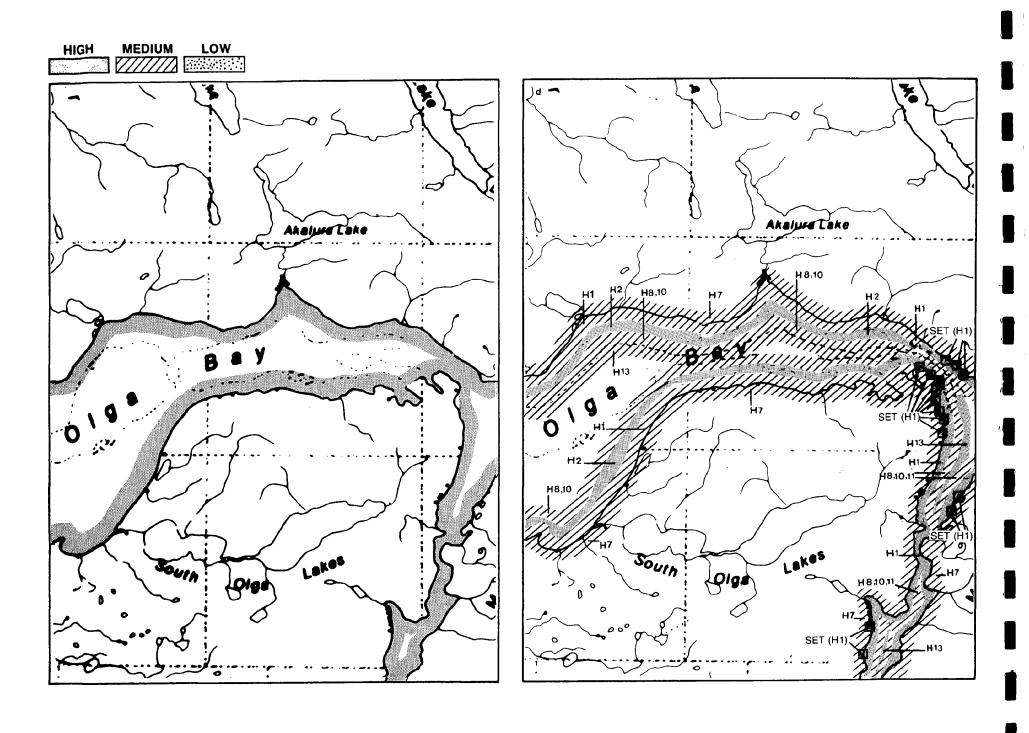
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R-5	Gravel Beaches											Ш	
R-6	Sheltered Rocky and Gravel Shores	ᆮ	Щ		L	Ь.		<u> </u>	_	لــــا	_	_	_
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H-6	Whitefish stence	Н			Т			_		Т		Г	Т
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H-8	Marine Mammal		L				L.						
H-9	Crab	Г			Ι		Г				Г		
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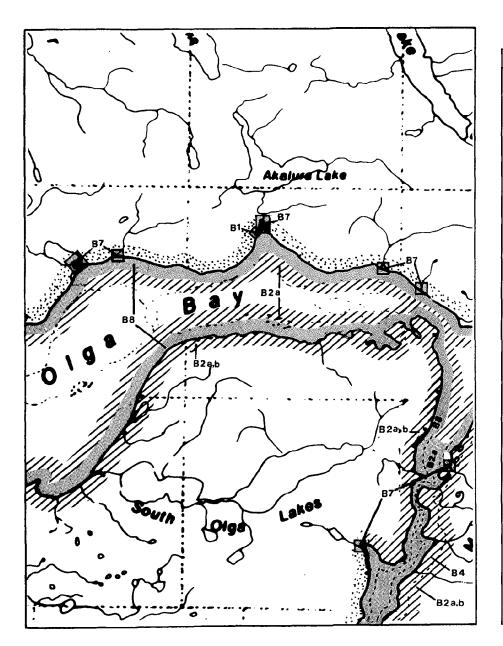




MAP NUMBER 34 Spring Summer SON RESOURCE OIL RESIDENCE Rocky Headlands Wave-Cut Platforms R-3 Sand Beaches/Exposed Tidal Flats R-4 Mixed Sand and Gravel Beaches R-5 **Gravel Beaches** Sheltered Rocky and Gravel Shores Protected Estuarine Tidal Flats and Marshes R-7 **HUMAN USE INDEX Commercial Fisheries** H-1 Salmon H-2 Roe Herring H-3 Crab H-4 Shrimp H-5 Halibut H-6 Whitefish Subsistence H-7 Deer/Elk/Reindeer H-8 Marine Mammal H-9 Crab Waterfowl H-10 H-11 Clams H-12 Halibut/Marine Fish H-13 Salmon Recreation H-14 Recreation Use Area H-15 Recreation Facility Infrastructure H-16 Boat Harbor H-17 Dock Concentration of Commercial & Residential Property **BIOLOGICAL INDEX** Onshore B-1 Seabird Colony B-2a Waterfowl (overwintering) B-2b Waterfowl (summer use) Sea Lion Haul-out B-3 B-4 Black Tail Deer B-5 Ełk 8-6 Brown Bear Offshore B-2a Waterfowl (overwintering) Waterfowl (summer use) Anadromous Fish Streams Salmon - Adults Salmon - Juveniles Char/Dolly Varden - Adults Char/Dolly Varden - Juveniles Steelhead - Adults Steelhead - Juveniles B-8 Herring Spawning Area B-9 Razor Clam Beach B-10 Sea Otters

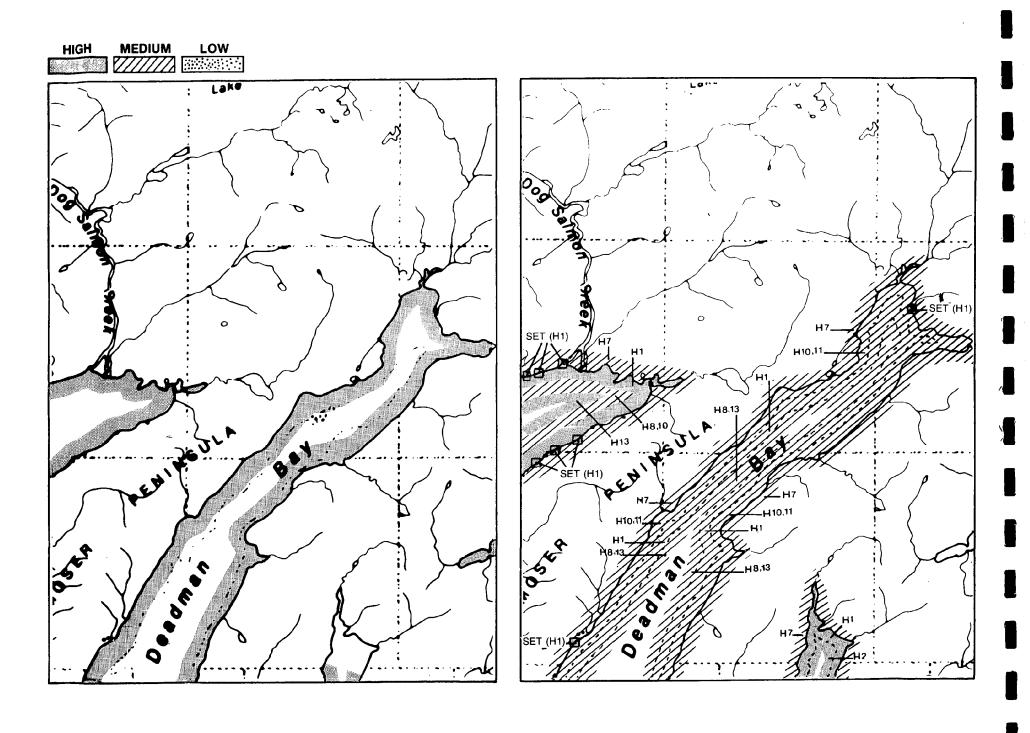


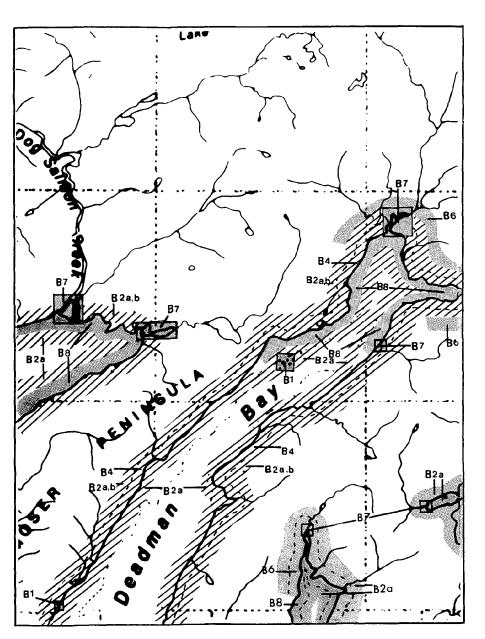




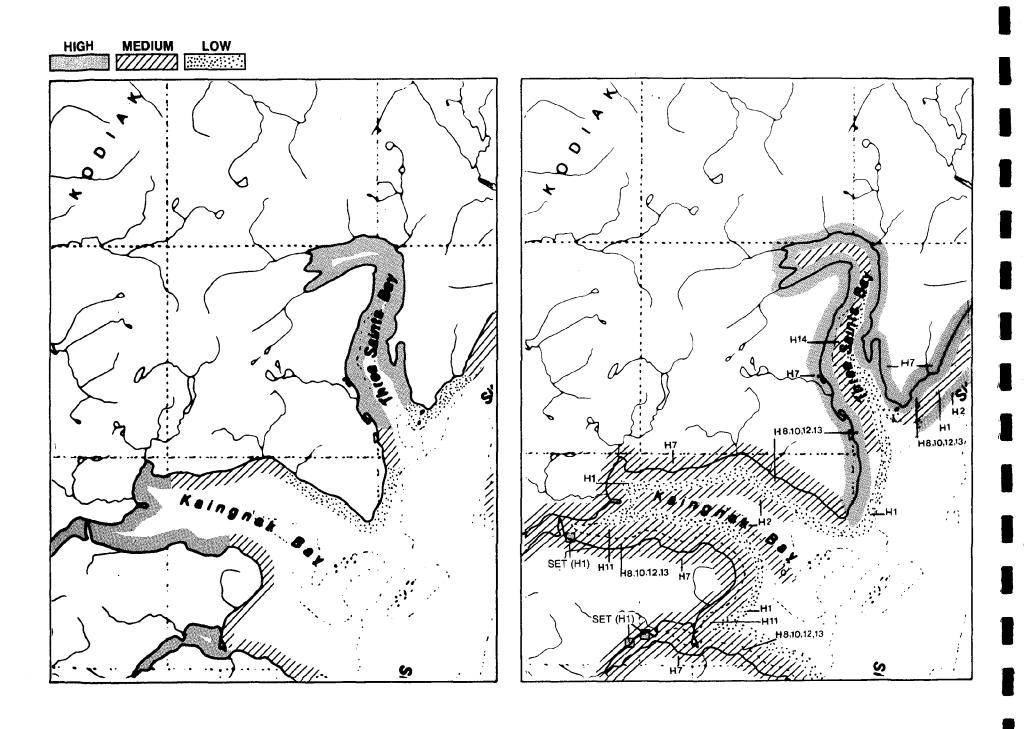
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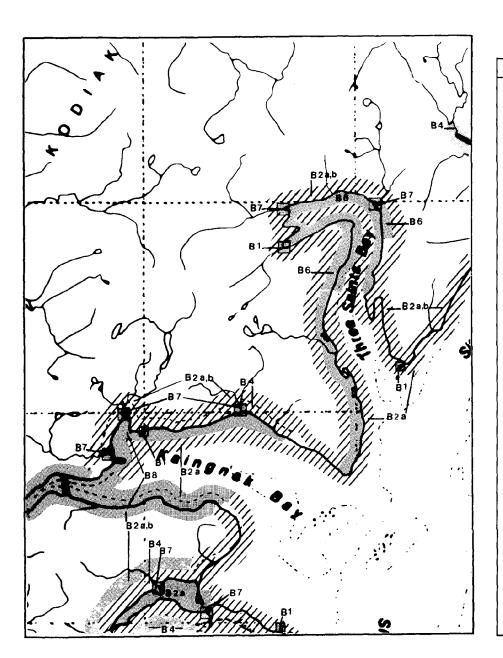
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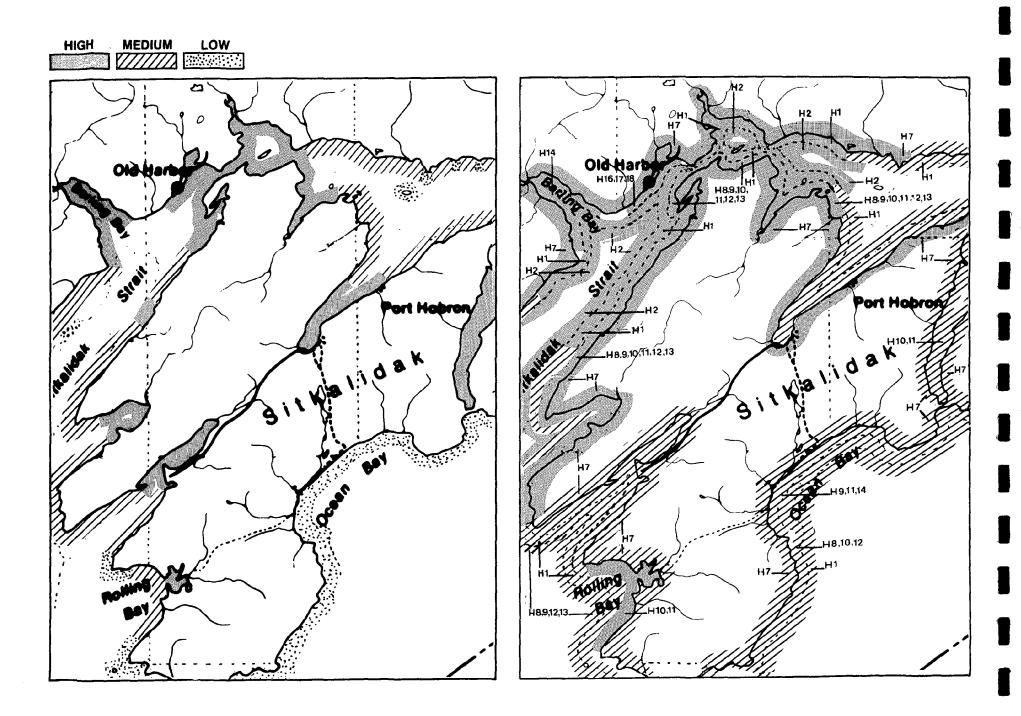


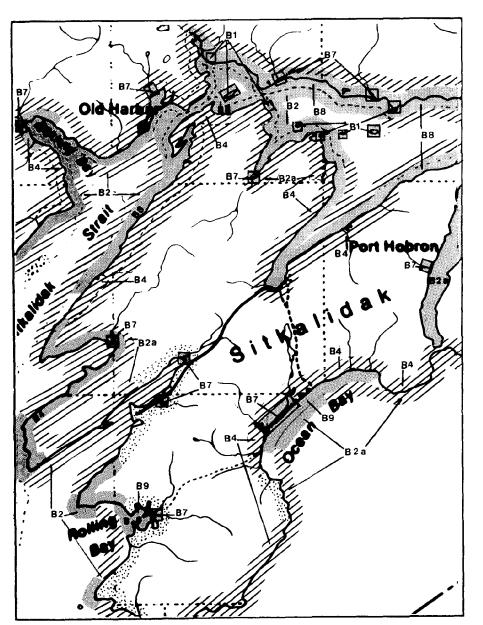
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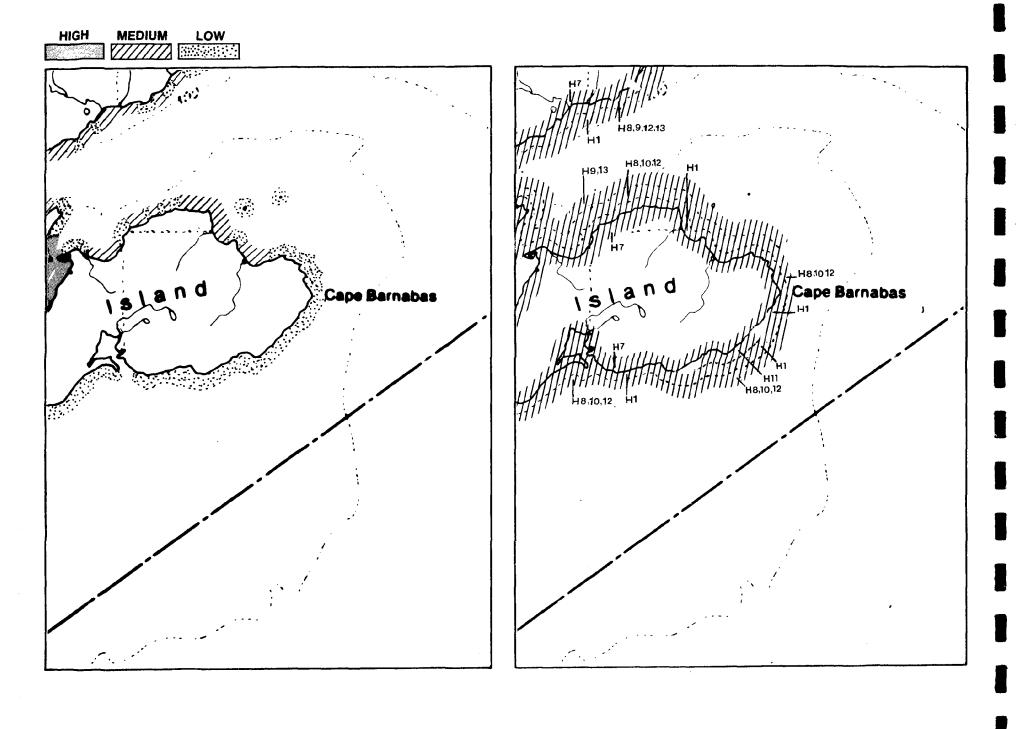


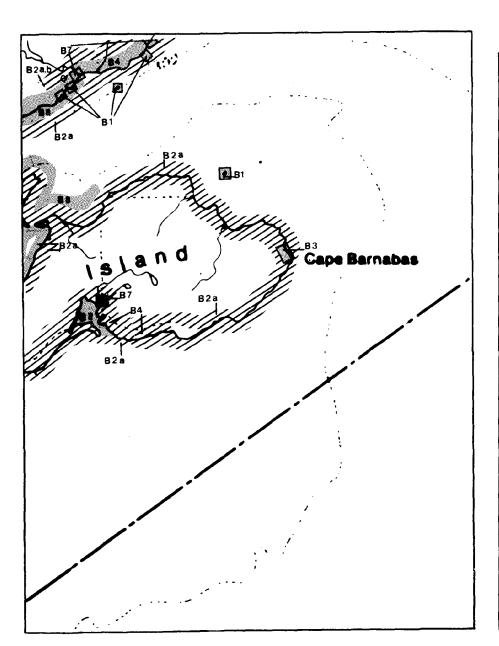
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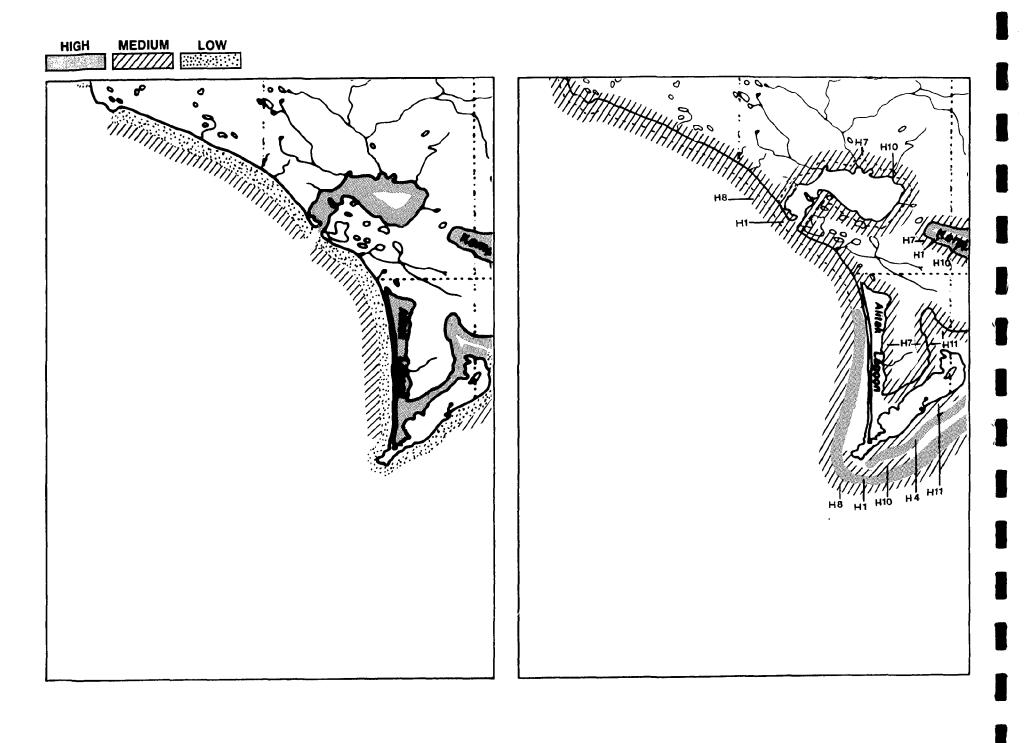


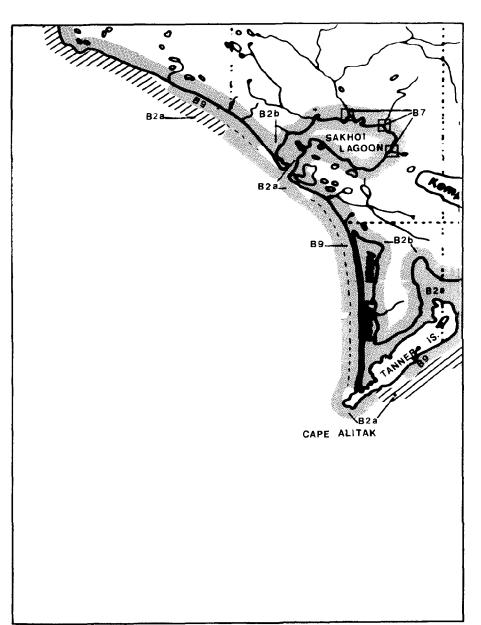
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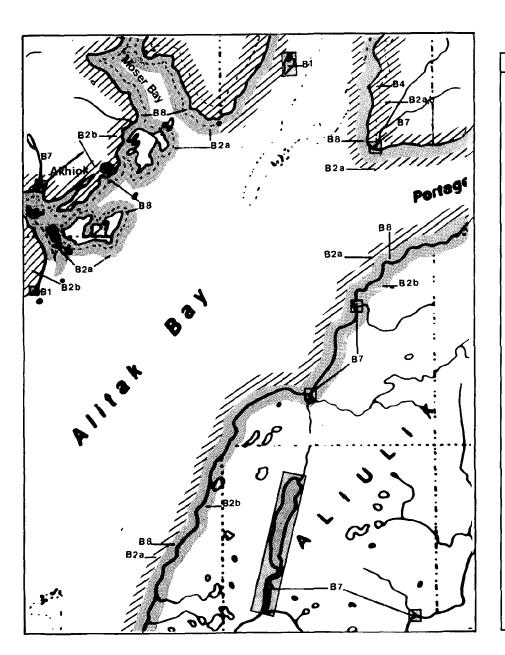
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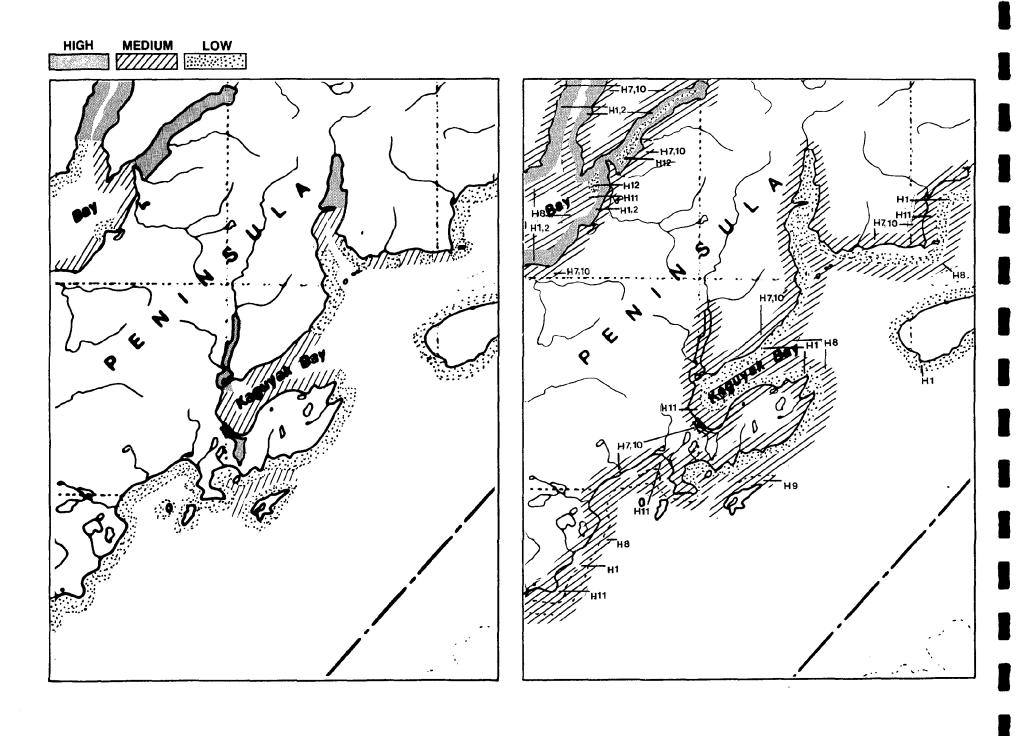


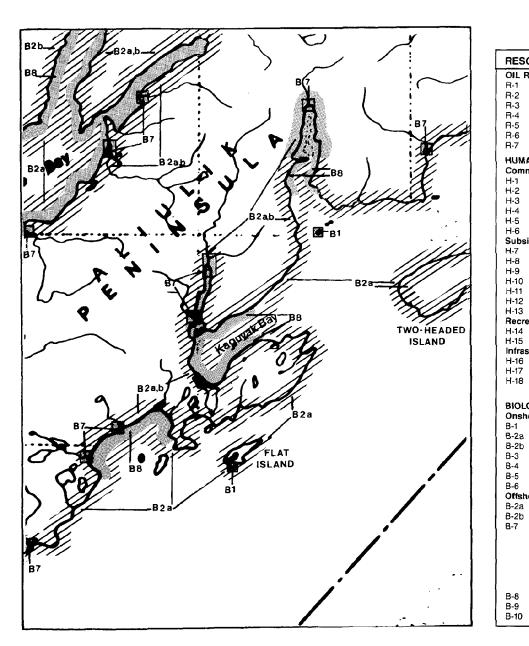
MAP NUMBER 41 Winter | Spring |Summer | DJFMAMJJASON RESOURCE OIL RESIDENCE Rocky Headlands Wave-Cut Platforms Sand Beaches/Exposed Tidal Flats R-4 Mixed Sand and Gravel Beaches R-5 Gravel Beaches Sheltered Rocky and Gravel Shores Protected Estuarine Tidal Flats and Marshes R-7 **HUMAN USE INDEX Commercial Fisheries** Salmon H-2 Roe Herring H-3 Crab Shrimp H-4 Halibut H-5 H-6 Whitefish Subsistence Deer/Elk/Reindeer H-7 H-8 Marine Mammal H-9 Crab H-10 Waterfowl H-11 Clams H-12 Halibut/Marine Fish H-13 Salmon Recreation H-14 Recreation Use Area H-15 Recreation Facility Infrastructure H-16 Boat Harbor H-17 Dock H-18 Concentration of Commercial & Residential Property **BIOLOGICAL INDEX** Onshore Seabird Colony Waterfowl (overwintering) B-2a B-2b Waterfowl (summer use) B-3 Sea Lion Hauf-out **B-4** Black Tail Deer B-5 Elk B-6 Brown Bear Offshore B-2a Waterfowl (overwintering) Waterfowl (summer use) Anadromous Fish Streams Salmon - Adults Salmon - Juveniles Char/Dolly Varden - Adults Char/Dolly Varden - Juveniles Steelhead - Adults

Steelhead - Juveniles Herring Spawning Area Razor Clam Beach

Sea Otters

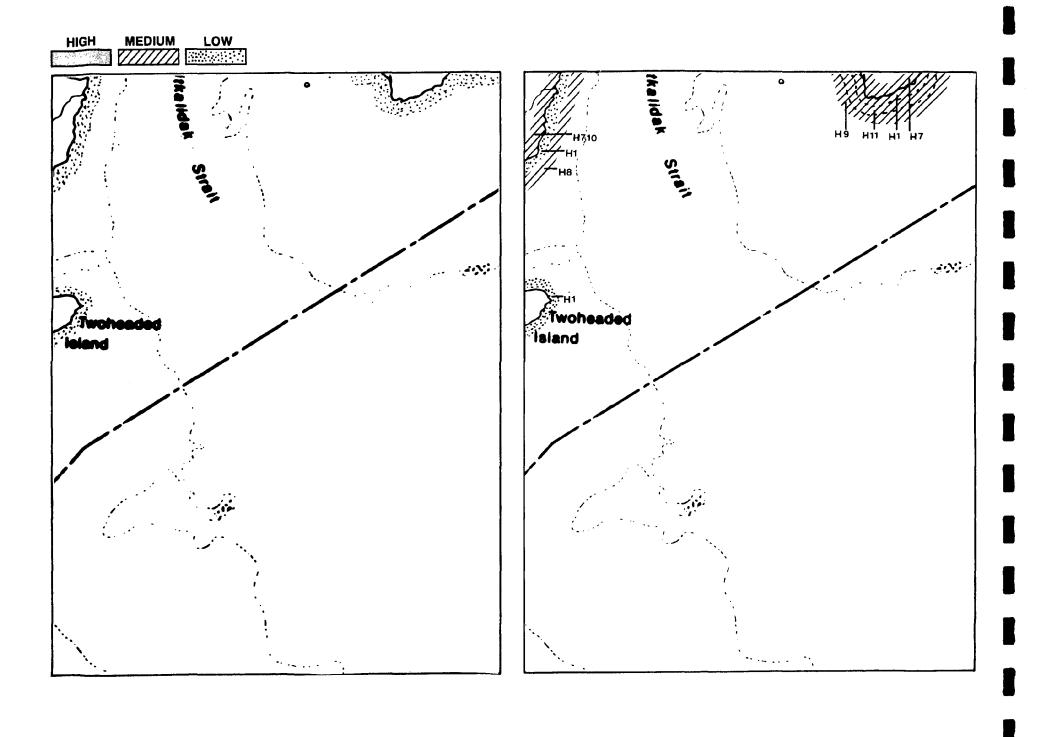
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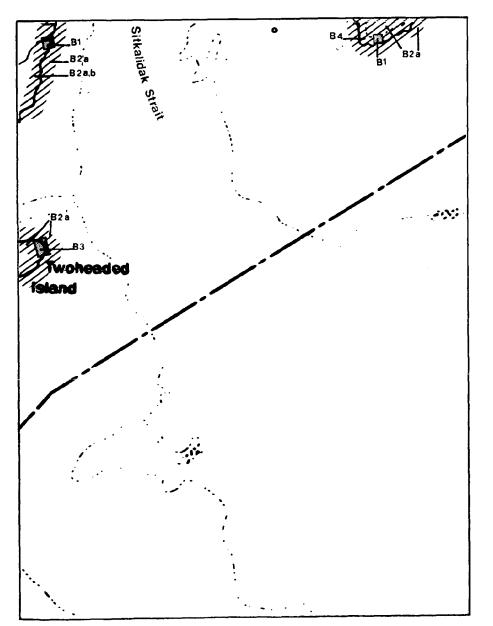




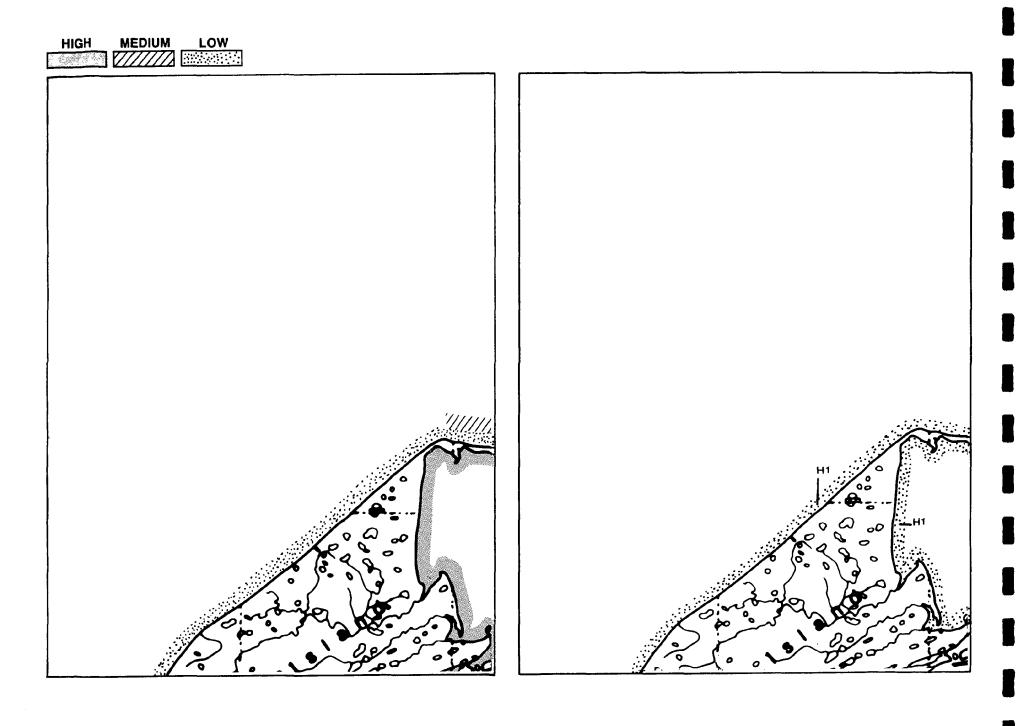
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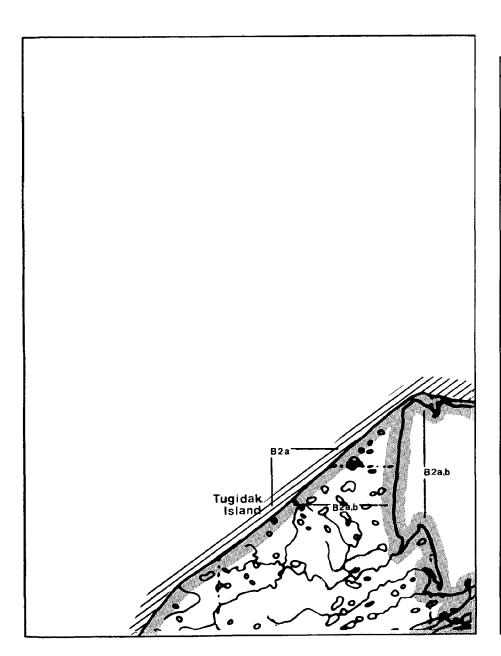
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B-9	Razor Clam Beach	1	ı	Ī	1		Ι.	Ι.	I	1	1 .	1 1	Ì
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MAP NUMBER 44 Spring Summer Fall RESOURCE DJFMAMJJASON OIL RESIDENCE Rocky Headlands R-2 Wave-Cut Platforms Sand Beaches/Exposed Tidal Flats Mixed Sand and Gravel Beaches R-5 Gravel Beaches Sheltered Rocky and Gravel Shores Protected Estuarine Tidal Flats and Marshes **HUMAN USE INDEX** Commercial Fisheries Salmon H-1 Roe Herring H-2 H-3 Crab H-4 Shrimp H-5 Halibut H-6 Whitefish Subsistence H-7 Deer/Elk/Reindeer H-8 Marine Mammal H-9 Crab H-10 Waterfowl H-11 Clams H-12 Halibut/Marine Fish H-13 Salmon Recreation Recreation Use Area Recreation Facility H-15 Infrastructure H-16 Boat Harbor H-17 Dock H-18 Concentration of Commercial & Residential Property **BIOLOGICAL INDEX** Onshore B-1 Seabird Colony Waterfowl (overwintering) B-2a B-2b Waterfowl (summer use) Sea Lion Haul-out Black Tail Deer B-4 B-5 Elk B-6 Brown Bear Offshore B-2a Waterfowl (overwintering) B-2b Waterfowl (summer use) Anadromous Fish Streams Salmon - Adults Salmon - Juveniles Char/Dolly Varden - Adults Char/Dolly Varden - Juveniles Steelhead - Adults Steelhead - Juveniles Herring Spawning Area

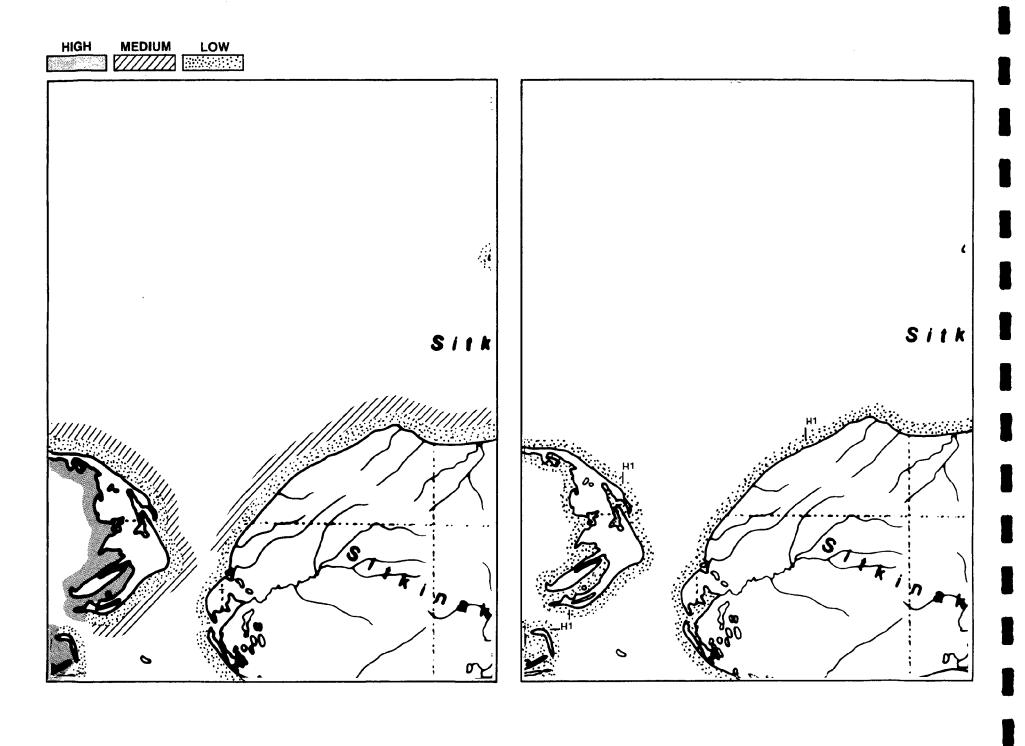
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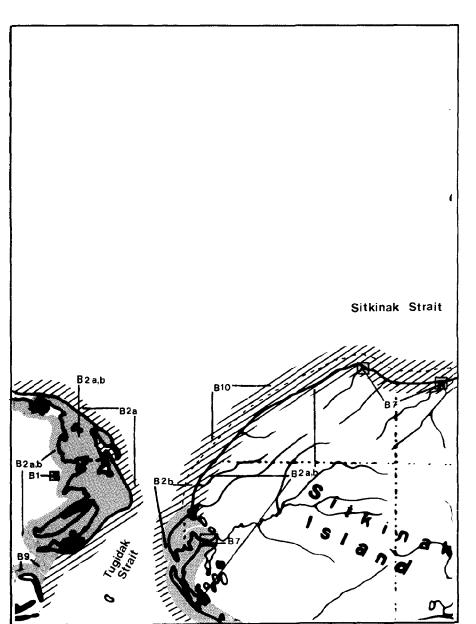
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Razor Clam Beach

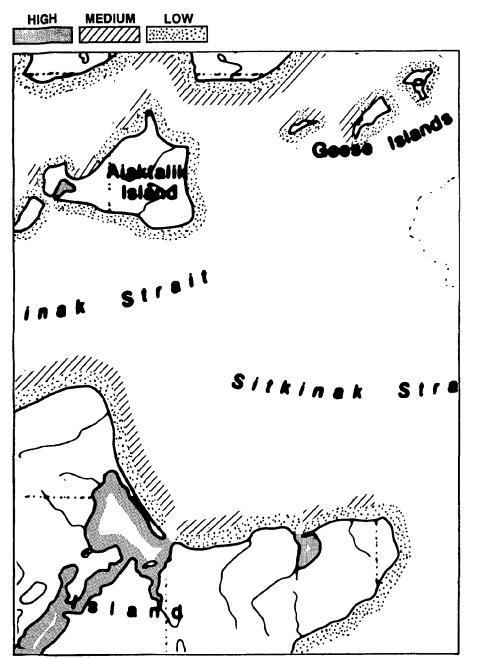
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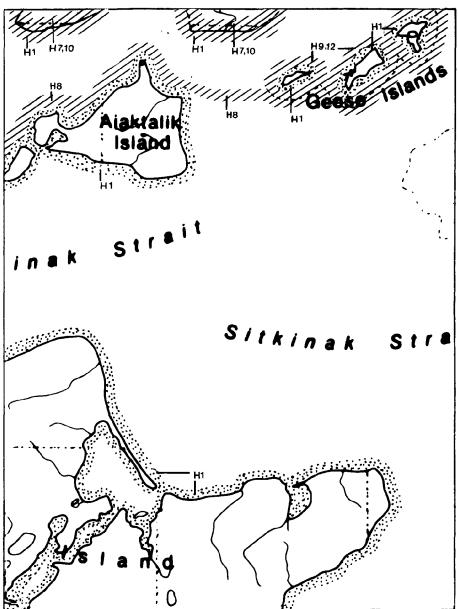
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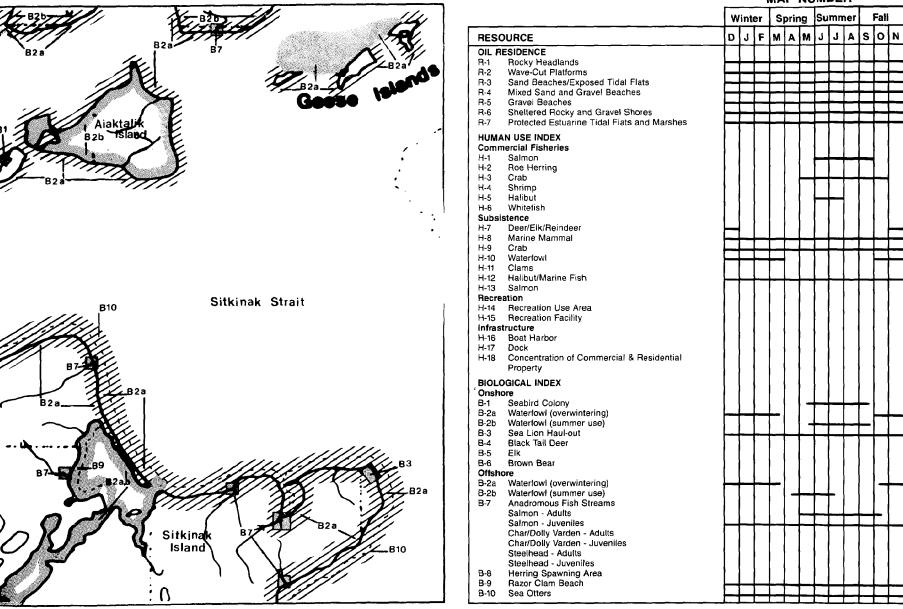




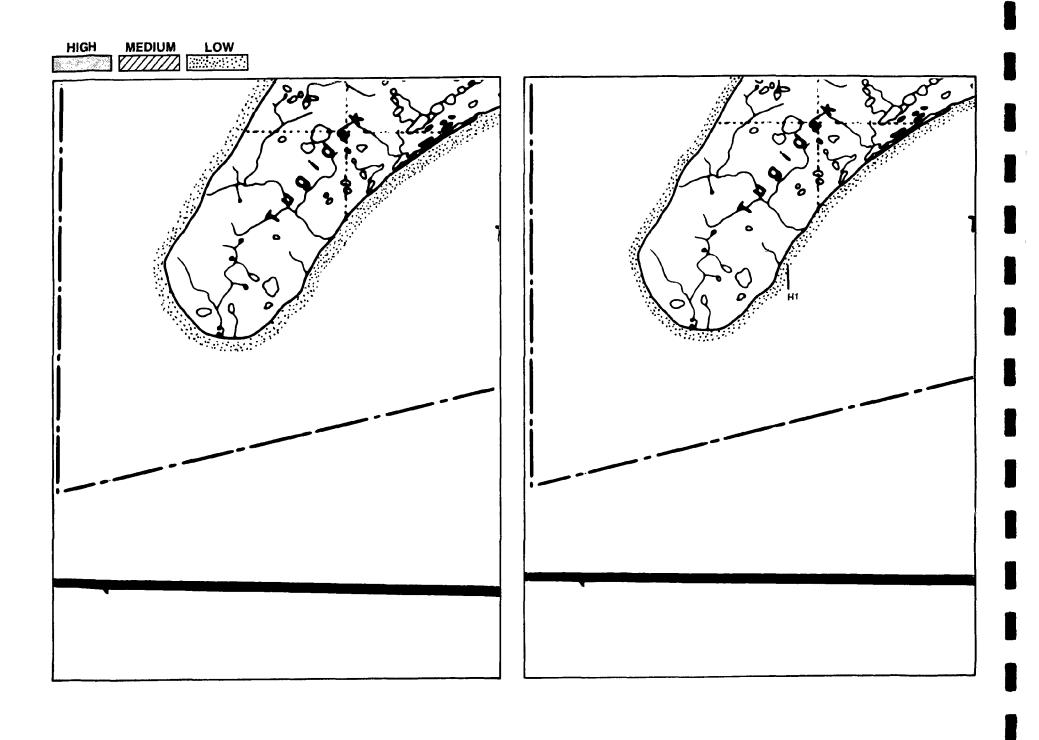
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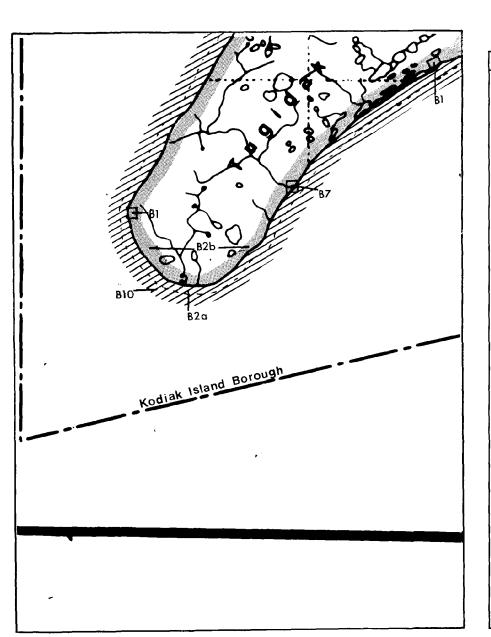




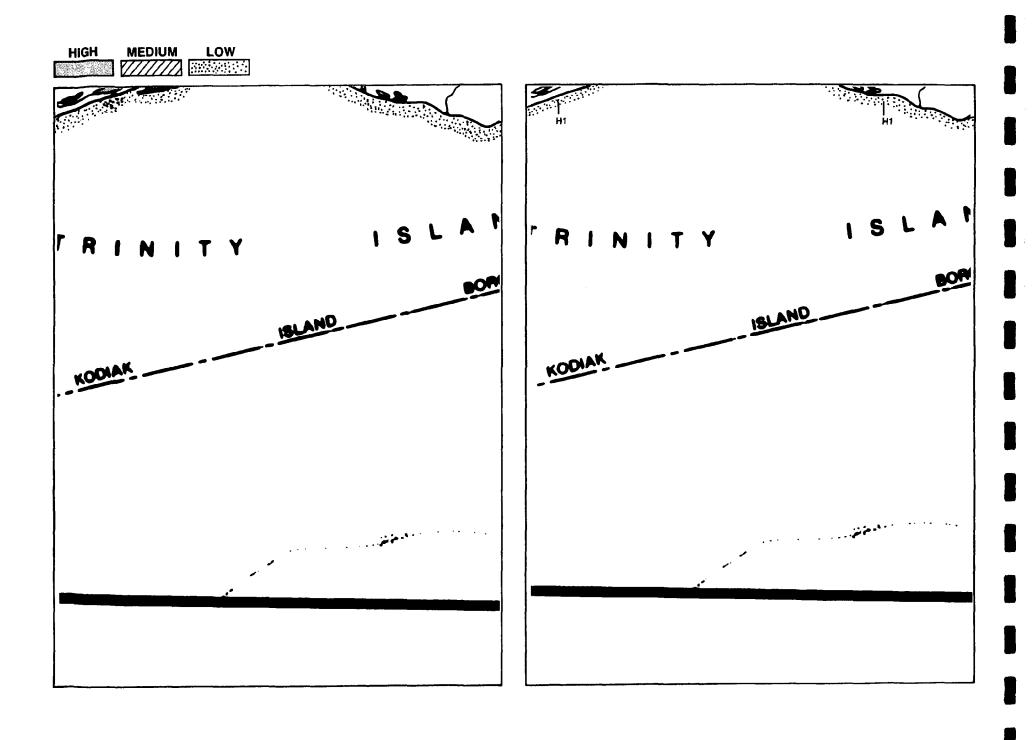


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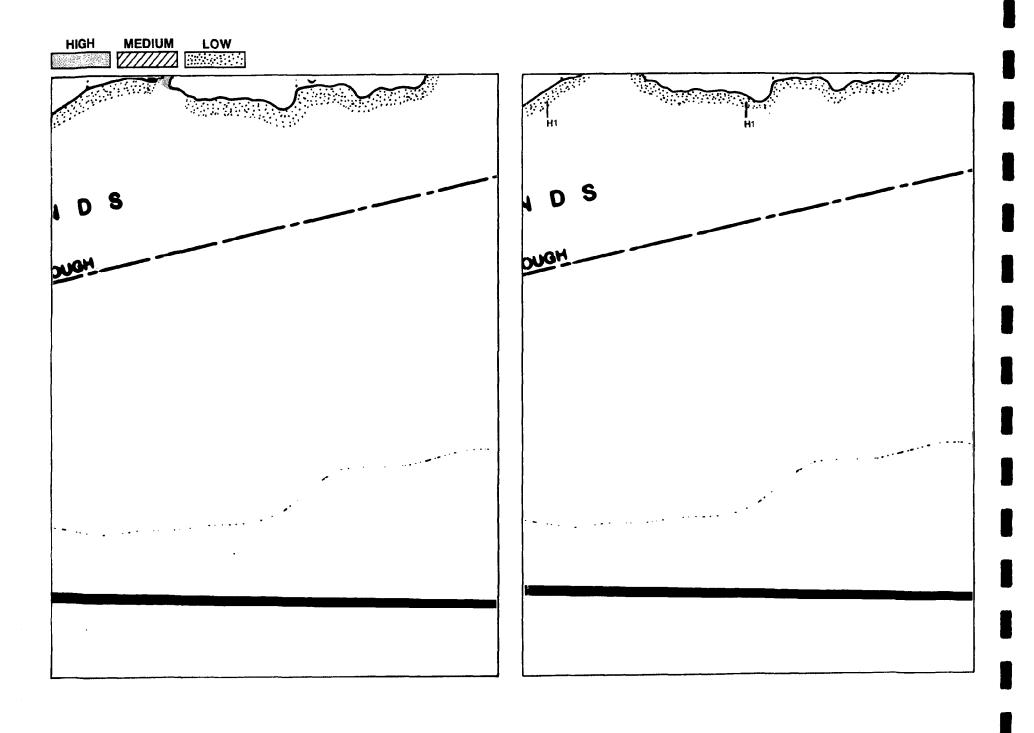


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Sitkinak Island

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R-3	Sand Beaches/Exposed Tidal Flats		_	1		_		_					
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Sitkinak Island Kodiak Island Borough

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Charleston, SC 29405-2413

